# **TABLES**

FOR THE

# REDUCTION OF METEOROLOGICAL OBSERVATIONS IN INDIA:

TO ACCOMPANY

THE "INDIAN METEOROLOGIST'S VADE-MECUM,"

BY H. F. BLANFORD,
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# PREFATORY NOTE.

Meteorological observers in India. Those for the reduction of the barometric readings to the freezing point and to sea-level, are old and well-known tables, which may be found in many other publications of a similar character.\* But the hygrometric tables have all been recomputed and adapted to the mean latitude of 22°.† The computation of the vapour tension tables has been much facilitated by the use of that very valuable and ingenious instrument, the arithmometer, (the invention of M. Thomas de Colmar). The use of this instrument has admitted of the calculation of the differences being carried out to eight places of decimals, when three or four only were required for the tables, and without an appreciable increase of labour; and greater accuracy has thereby been secured.

For the computation of the tables for use with the psychrometer, I have preferred August's formula as corrected by Regnault, having found by experiments with Regnault's hygrometer in the dry atmosphere of the interior of India and at high temperatures, that the results computed by that formula are the most satisfactory.

<sup>\*</sup> Table I is reprinted from Colonel James's 'Instructions,' which is more comprehensive than others. 
† The relative humidity tables are the same for all latitudes.



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# CORRIGENDA IN TABLES.

```
Page 3, line 22, for 0061, read 007.
               23, ,, 30 × 108, read 30 + 108.
      3, ,,
               24, ,,
                        .0064 \times .108 = .0006912, read .007 \times .108 = .000756.
      5, ,, 15, ,, ·351, read ·352.
      5, lines 18, 30 and 33, for 335, read 337.
      5, line 23, for Table IV, read Table V.
      6, " 14, " 7.06, read 7.05.
     18, 4th column, line 9, for 0.621, read .0621.
                 The vapour tension for 7.6°.
    18, last column, line 9, for '2246, read '2846.
                  This is the vapour tension at 43.6.
     19, column 14, for 1.9434, read 1.3434.
                   This is the vapour tension at 88.4.
    22, t' = 52^{\circ} t - t' = 2.5, for .256, read .356.
    23, t' = 40^{\circ} t - t' = 17.5, , 0.19, ,
    27, t' = 67^{\circ} t - t' = 19.5, , 412, ,
                                               ·402.
    27, t' = 72^{\circ} t - t' = 26.5, , .427, ,
                                               .429.
    51, t' = 70^{\circ} t - t' = 4^{\circ}, 45°, 5°, insert omitted numbers 81, 79, 77.
   51, t'=76 t-t'=0, for 110, read 100.
   52, t' = 72^{\circ} t - t' - 15.5, ...
                                   4, "
    77, t' = 32^{-} t - t' = 17.5, ,,
```

N. B.—The above corrections should be made in ink in the Tables, before they are used.

#### TABLES

FOR THE

#### REDUCTION OF METEOROLOGICAL OBSERVATIONS IN INDIA.

#### USE OF THE TABLES.

TABLE I gives the corrections to be applied to the actual reading of a barometer with a brass scale at any given temperature, in order to find the height of the column exerting the same pressure at the temperature of melting ice. The formula by which such a table is computed is given at page 15.

If the reading of the barometer is within + 0·1 or - 0·1 of the value at the top of any column, find, in the first column, the temperature corresponding to that of the attached thermometer, and the figures in that line in the column of the observed pressure, is the correction. This is to be deducted if the temperature is above 28°, and to be added if below 29°.

If the barometer reading is not within 0·1 of the value which heads one of the columns, but the temperature of the attached thermometer is in integral degrees, the correction is found by interpolation according to the following rule:—

Rule.—When the barometric reading to be reduced is intermediate between two values represented by columns in the Tuble, take from the Tuble the corrections for the pressures next above and below the reading; multiply the difference of these corrections by twice the difference of the barometric reading to be reduced and the lower of the tabular headings. The result, added to the tabular correction for the lower tabular pressure, gives the correction required.

EXAMPLE.—Let the barometric reading be 29.720 and the temperature of the attached thermometer 85°.

From table with arguments Ditto ditto 29.5 and 85 take 
$$-0.149$$
 30.0 and 85 take  $-0.151$  Difference  $-0.002$ 

$$29.720 - 29.5 = 0.220$$

$$-0.02 \times 0.40 = -0.0088$$

$$-(.149 + 0.0088) = -1.4988$$
instead of which we take  $-150$ 

$$29.720$$

$$-.150$$

29.570 = reduced reading.

If the reading of the attached thermometer is within + 0.2 or - 0.2 of an integral degree, the tabular correction for the integral degree may be taken. Otherwise, when great accuracy is required, a value is to be found by interpolation according to the rule above given, substituting the words 'thermometric' for 'barometric,' 'temperature' for 'pressure,' 'lines' for 'columns,' &c., and omitting the word 'twice' in the fourth line.

If neither the reading of the barometer nor that of the attached thermometer corresponds to those given in the tables within the limits already assigned, then a double process of interpolation is requisite, thus—

EXAMPLE.—Let the barometer reading be 29.720 and that of the attached thermometer 85.6. Having found, as above, the correction—14988 for temperature 85°, obtain that for 86° by a similar process. This is found to be 15232. The difference is .00244.

In general, interpolation for fractions of a degree is an unnecessary refinement.

Table II.—This table gives the height of the column of mercury, at 32° Fahrenheit, the weight of which equals that of a column of air of a given height and temperature, when the pressure at the sca-level is 30 inches. It is used for reducing to their equivalent values at sca-level, the barometric readings recorded at stations not more than 500 feet above that level.

To use the table, look down the first column for the value expressing the ascertained elevation of the barometer eistern; and along the headings of the subsequent columns for the temperature corresponding to the observed temperature of the external air (not that of the attached thermometer). At the intersection of that line and column, will be found the figures expressing the decimals of an inch, which are to be added to the barometric reading (previously reduced for temperature) to give its sea-level equivalent.

If this sea-level value is 30 inches, no further operation is required; but if it be less or more than 30 inches, a further correction is to be applied, which is obtained from the right-hand column. Let the value obtained by the first process be 30—d. Multiply by d the figures in the last column, on the line of the given elevation, and deduct the product from the value first found. If d is positive,—that is, if the value first found is higher than 30 inches,—then the correction is to be added.

EXAMPLE.—Required to find the sea-level equivalent of 29.403 (reduced reading) at a station 240 feet above the sea, the temperature of the external air being 80°.

With the arguments 240 feet (first column) and 80° (heading of column), take out the tabular value 248:

The value in the last column on line 240 feet is  $\cdot 009$  $\cdot 009 \times \cdot 349 = \cdot 003141$ 

instead of which we take '003 and deduct 29.651 '003

**2**9·648

which is the sea-level value required.

If the temperature of the air and the elevation of the barometer are intermediate between the tabular values given, the correction is obtained by interpolation, as in the case of the previous table. EXAMPLE.—Required the sea-level value of 29.916 at a station 184 feet above the sea-level, the temperature of the external air being 73.4°.

In line 180 and columns 70 and 80, take out the values 189 and 185; the difference is -004

for the higher temperature:

$$^{-\frac{.004 \times 3.4}{10}}_{-\frac{.00136}{0}} = -\frac{.00136}{.18764}$$

which is the correction for 180 feet.

In line 190 and columns 70° and 80°, take out 200 and 196; difference = - 004, as before: 200 - 00136 = 19864

which is the correction for 190 feet.

$$\begin{array}{c} .19864 - 18764 = .011 \\ \frac{.011 \times 4}{10} = .0044; \end{array}$$

which is the correction of 4 feet: adding this to the value found for 180 feet

instead of which we take '192 29:916 '192

30.108

The value for 184 feet in the last column (obtained by interpolation between those for 180 and 190 feet) is '0064; and

which is the sea-level value required.

It saves much trouble if a table is computed once for all for each station by the method above given; so that (the elevation being constant) the correction required may be taken out at once for a given pressure and temperature. The following is given as an example of such a table. It is for the observatory at Goalpára, where the barometer cistern is 386 feet above mean sea-level:—

temp.		Bar	rometer re	ading.		temp.	Barometer reading.						
Air ter	29.0	29·2	29.4	29.6	29.8	Air te	29.0	29.2	29.4	29.6	29.8		
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	.424 .423 .422 .422 .420 .419 .418 .417 .416 .415 .415 .415 .414 .413 .412	*427 *426 *425 *424 *423 *422 *421 *420 *419 *416 *416 *415 *414	*429 ·428 ·427 ·426 ·425 ·425 ·424 ·423 ·422 ·421 ·420 ·419 ·418 ·417	·432 ·431 ·430 ·429 ·428 ·427 ·426 ·426 ·425 ·424 ·423 ·422 ·421 ·420 ·419	·435 ·434 ·433 ·432 ·431 ·430 ·429 ·429 ·426 ·427 ·426 ·425 ·424 ·423 ·422	55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	·410 ·409 ·408 ·408 ·407 ·406 ·405 ·404 ·403 ·402 ·402 ·401 ·400 ·399 ·398	·413 ·412 ·411 ·410 ·409 ·409 ·408 ·407 ·406 ·405 ·404 ·404 ·404 ·403 ·402 ·401	·416 ·415 ·414 ·418 ·412 ·411 ·411 ·410 ·409 ·408 ·407 ·406 ·405 ·404	419 418 417 416 415 414 413 412 411 410 409 408 407	·421 ·421 ·420 ·419 ·418 ·417 ·416 ·415 ·414 ·414 ·413 ·412 ·411 ·410 ·409		

Such a table should, of course, be extended to such limits of temperature and pressure as will comprehend the highest and lowest readings recorded at the station; and it may be further elaborated by interpolating the values for the alternate tenths of an inch, &c., according to convenience.

It is to be observed, in the use of all such tables, that the external temperature refers, strictly speaking, to the mean temperature of the column of air below the station down to sea-level. This may be obtained by adding 0.1 for every 90 feet of elevation to the air temperature observed at the station. But the correction thus introduced is scarcely appreciable in the result.

The table cannot be used for elevations greater than 500 feet. At higher stations it is better to use the table based on Laplace's barometric formula, which has been computed by Captain Allen Cunningham, R.E., published in the Roorkee Professional Papers on Indian Engineering, second series, No. CXIII.

Table III.—This table gives the tension of saturated aqueous vapour, in decimals of an inch of mercury at the temperature 32°, in latitude 22°, at the level of the sea. It has been reduced from the original table for the latitude of Dublin, computed by the Rev. Robert Dixon; by correcting his values for the difference of gravity, viz., multiplying them by the constant factor 1.00286184.

The psychrometric tables which follow are all based on this table, and the com-

putation has been chiefly made by the aid of the arithmometer.

The chief use of this table is in computing the humidity and vapour tension, from observations of the dry and wet bulb thermometers, by August's or Apjohn's formula; and for finding the dew point corresponding to that vapour tension.

August's formula, which has been used in computing the Tables IV to XI, is as follows :--

For temperatures of the wet bulb below 32°,

$$x = f' - \frac{480 (t-t')}{1240^{-2}}$$

 $x = f' - \frac{480 (t-t')}{1240^{\circ}2^{-}} t'$  and for temperatures of wet bulb above 32'

$$x = f' - \frac{.480 (t-t')}{1130-t'} h$$

wherein t and t' are the temperatures of the dry and wet bulb thermometers respectively, in Fahr. degrees, for the tension of vapour at temperature t, h the reading of the barometer in inches, and x the tension of the vapour present in the air at the time of the observation.

The value of f' corresponding to t' is given by Table III, taking t' as the argument; and when x has been computed, the temperature which, in Table III, corresponds to x, is that of the dew point.

Example.—Required the vapour tension and dew point of the atmosphere when the readings of the dry and wet bulb thermometers are 98°.1 and 63°.4, and the barometer reading (reduced to

Here 
$$t = 98^{\circ} \cdot 1$$
,  $t' = 63^{\circ} \cdot 4$ , and  $(t-t') = 34 \cdot 7$ ,  $h = 29 \cdot 763$  and, from the table,  $f' = \cdot 5953$ 

$$x = \cdot 5953 - \frac{\cdot 480 \times 317}{1130 - 63 \cdot 4} \cdot 29 \cdot 763 = \cdot 1305$$

which is the vapour tension required.

The temperature in the table, corresponding to 1304, is 24.4. This, therefore, is the computed dew point of the air at the time of the observation.

Tables IV, VI, VIII and X are given to save the trouble of calculation, and show at once the vapour tension corresponding to any given readings of the dry and wet bulb thermometers, when the pressures are respectively 29.7, 27.7, 25.8 and 23.4, these being the average pressures at stations (IV) at and near the sea-level, (VI) at 2,000 feet, (VIII) at 4,000 feet and (X) at 7,000 feet respectively. For all ordinary purposes the vapour tensions thus computed to a constant mean barometric pressure

are sufficiently exact.

The use of the tables is very simple. Having corrected the readings of the dry and wet bulb thermometers for their errors of graduation, deduct that of the wet bulb t' from that of the dry bulb t. Then, in the left-hand column of the table, look out the temperature of the wet bulb, and in that line and in the column the heading of which is the difference t-t' will be found the vapour tension required.

EXAMPLE.—At Házáribágh 2,010 feet above sea-level, the corrected temperature of the dry bulb is 103.2 and that of the wet bulb 70.5. Required the vapour tension.

Here 
$$t-t' = 32.7$$
  
 $t' = 70.5$ 

and the station being 2,010 feet above sea-level, we use Table VI.

By the table in line 70° and column 32·5, vapour tension = ·327

Ditto 70° ditto 33· ditto = ·321

Ditto 71° ditto 32·5, ditto = ·351

Ditto 71° ditto 33· ditto = ·346

from which four values, by interpolating for the tenths of degrees in the manner already shown for the barometric Table I, we obtain '335, which is the vapour tension required.

These tables, together with Table III, may be used to find the dew point of the air from observations of the dry and wet bulb thermometers. Having found the tension of vapour in the air by the help of the former, turn to Table III, and the temperature corresponding to that tension is the dew point required.

Tables IV, VII, IX and XI are used in the same way as the foregoing, and give the relative humidity of the air corresponding to any observed temperatures of the

dry and wet bulb thermometers for the same four values of mean pressure.

By the 'relative humidity' of the air is understood the proportion which the weight of water vapour present in the air bears to that which would saturate it at the temperature of the dry bulb. This, by Boyle's law, is directly as the proportion which the actual vapour tension bears to that of saturation, and the ratio is expressed as a percentage of the latter. Thus, in the example above given, '335 is the actual vapour tension, and, by extending Table III up to the temperature of 103.2, we find that the vapour tension of saturation at that temperature is 2.1156. Hence the relative humidity

 $\frac{.335 \times 100}{2.1156} = 16$  nearly

which is the number given in Table VII for wet bulb temperature 70.5, and a difference of 32.7.

Table XII shows the weight of vapour (in Troy grains) in a cubic foot of air at different temperatures, when the vapour tension is given, the vapour tensions being expressed in terms of the gravitation of a column of mercury in latitude  $22^{\circ}$ . In computing this table, I have assumed the weight of a cubic foot of dry air at 30 inches pressure (in the latitude of Dublin), and at  $32^{\circ}$  Fahrenheit, to be 563 grains; and that water vapour weighs  $\frac{9}{14 \cdot 15}$  as much as dry air at the same pressure and temperature. Also, I have taken the expansion of water vapour at the same value as that of air, viz.,  $\frac{4}{403}$  of the volume at  $32^{\circ}$  for each degree Fahrenheit. Hence at any temperature t the weight x of one cubic foot of vapour at pressure p is

The values have been computed for even thousandths, hundredths and tenths of an inch, and for one and two inches of pressure; and for the temperature of the

freezing point and successive decrements and increments of 5 degrees between 2° and 127°; by the addition of which, the weights corresponding to all pressures up to 3 inches may be easily calculated.

EXAMPLE.—The tension of vapour in the air is found to be 679, and the temperature 93°. What is the weight of vapour in the cubic foot?

For 6 take 6.23 and 6.18, which are the values for that pressure in the columns for 92° and 97°; for .07 the tensions 0.73 and 0.72 from the same columns; and for .009 the value 0.09 from the same columns. Then, adding separately for the two temperatures—

the sums 7.05 and 6.99 represent the weights corresponding to 92° and 97°. The difference is 0.06. One-fifth of this deducted from 7.06, or four-fifths added to 6.99, gives 7.04 grains for the temperature 93°; which is the answer required.

TABLE I,
For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit.

This Table is applicable only to Barometers with Brass Scales.

	REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.												
Tempera- turo, Fahrenheit.		Height	OF THE	BAROMET	ren in I	NCHES, A	ND CORR	ECTION I	и Десім	ALS OF A	и Ілсн.		Tempera- ture, Fahrenheit
	13.2	14.0	14.5	15.0	15.2	16.0	165	17.0	17:5	18.0	18.5	19.0	
0	+ .047	+.049	+.050	+ 052	+ 054	+.056	+.057	Lioro	+.061	+.062	+.064	+.066	0
—10 ·	*046	*047	*049	051	052	*054	*056	+·059	-059	·061	062	*064	10
8	*044	*046	048	049	052	053	054	'056	.058	*059	*061	*062	9
7	043	-045	.046	.048	050	'051	053	'054	*056	.058	'059	'061	7
6	042	.043	015	.047	*048	<b>'0</b> 50	*051	.053	'054	.056	'057	.059	6
5	•041	.042	044	•045	017	.048	.050	'051	*053	*054	056	057	5
4	010	*041	042	.044	045	047	048	.050	•051	.053	054	*056	4
3	.038	.040	.041	.043	044	.045	047	*048	*050	051	*052	*054	3
2	.037	.038	.040	041	043	*044	015	'047	*048	049	*051	*052	2
-1	•036	*037	.039	.010	*041	012	044	045	'046	048	.019	.020	-1
0	+.035	+.036	+.037	+.038	+.040	+.041	+.042	+.011	+.045	+ 046	+'017	+.040	0
+1	.033	•035	*036	.037	'038	*040	*041	042	043	*045	*046	017	+1
2	•032	.033	*035	.036	*037	*038	*039	'041	042	043	1014	045	2
3	*031	-032	.033	.034	.036	.037	*038	.039	.010	.041	042	044	3
4	•030	031	.032	•033	034	*035	*036	*037	*039	.040	041	042	4
5	•029	•030	•031	-032	.033	*034	.035	.036	.037	.038	.039	*010	5
6	*027	•028	*029	.030	.031	*032	.033	.034	.035	*036	.037	*038	6
7	*026	.027	.028	.029	.030	.031	*032	.033	.034	*035	036	*037	7
8	•025	.026	*027	•028	*029	*029	.030	.031	.032	.033	034	*035	8
9	*024	.025	•025	026	.027	.028	*029	.030	.031	-032	.032	.033	9
10	+ '022	+.023	+.021	+*025	+ '026	+:027	+.027	+ '028	+.029	+.030	+.031	+.032	10
	021	.023	023	*024	024	025	*026	027	*028	028	*029	'030	11
11 12	-020	022	023	.023	023	024	024	-025	026	027	.027	030	12
13	.019	.020	.020	.021	022	.022	.023	025	024	.025	026	*027	13
14	•018	*018	.019	*020	.020	021	.022	022	.023	*023	*024	*025	14
15	.016	*017	.018	.018	-019	.019	.020	021	•021	-022	.022	.023	15
16	-015	.016	.016	.017	*017	.018	.019	-019	•020	.020	022	'023	16
17	.014	014	015	.016	.016	'017	.017	.018	.018	.019	.019	020	17
18	.013	013	.014	014	.012	.012	.016	.018	.017	.017	017	018	18
19	.012	.012	.012	.013	.013	.014	.014	.012	*015	*015	.018	.016	19
20	+ 010	+.011	+.011	+.011	+.012	+.012	+.013	+.013	+.013	+ '014	+ 014	+.012	20
20	-009	.009	-010	010	.010	011	-011	*011	013	012	012	013	20 21
22	-008	.008	.008	.009	.009	.009	-010	.010	.010	-011	.011	.011	22
23	-007	.007	-007	-007	.008	.008	.008	.008	.018	.009	.009	.009	23
24	-005	.006	-006	-006	.006	.006	007	•007	.007	.007	*007	.008	24
25	.004	-004	*005	•005	'005	-005	.005	.005	.006	.008	.008	.008	25
26	.003	.003	.003	-003	.003	003	*001	.001	.004	-004	.004	'004	26
27	.002	.002	.002	.002	.002	.002	002	002	.002	.002	.003	*003	27
28	-001	•001	.001	-001	.001	.001	.001	.001	.001	-001	.001	.001	28
29	001	001	001	001	001	001	001	-001	001	001	001	001	29
		"				552							-

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32

Fahrenheit—(continued).

Tempera-			-										Tempera
ture, Fahrenheit.		Ивіснт	OF THE	BAROMET	er in In	CHES, AN	D Corr	ECTION 1	N DECIM	TALS OF	AN INCH.		turé, Fahronho
	13.2	140	14'5	15.0	15.2	16.0	16.5	17:0	17:5	18.0	18.5	19.0	
30	002	003	002	-:002	'002	-'002	<b>—</b> ·002	002	002	002	'002	003	0 30
31	.003	.003	.003	.003	.003	.003	1001	100	1001	100	1004	.004	31
32	-(01	*004	.002	.002	.002	'005	*005	.002	.002	106	*006	.008	32
53	.002	.006	.006	.008	.006	1008	.007	.007	*007	.007	-007	.008	83
31	.007	.007	.007	.007	.008	.008	.008	.008	.009	.009	.009	.009	31
35	.008	.008	.008	.009	.000	.009	.010	.010	.010	'010	.011	.011	35
36	.000	.008	.010	.010	.010	'011	.011	*011	.012	012	.012	·013	36
37	.010	.011	.011	.011	012	.013		.013	.013	.014	'014	.013	37
38	.011	.012	'012	.013	.013	1014	*01 \$	011	*015	.015	.016	.016	38
39	.013	.013	.014	014	.012	'015	.016	.010	.016	.012	'017	-018	39
				! 									
40	014	014	<b>—</b> ·015	012	:016	016	<b>—</b> :017	018	018	010	019	020	40
41	'015	.010	.016	'017	.017	.018	.018	.010	'020	'020	'021	'021	41
42	.010	.017	.018	.018	.019	.019	.020	.021	.021	.022	022	.023	42
43	.018	.018	.010	.010	.020	.021	.021	.022	'023	.023	'021	'025	43
44	.019	.019	.050	*021	.022	022	.023	.021	024	*025	*026	.026	41
45	•020	*021	.021	.022	.023	.021	021	'025	*026	.027	'027	'028	45
46	.051	.055	.023	.023	*021	.025	'026	.027	.027	-028	'029	.030	46
47	.053	.023	.024	.025	*026	.020	*027	.028	*029	.030	.031	.031	47
48	*024	*021	.025	026	.027	028	.020	*030	'031	.031	.032	.033	48
49	.032	.026	.052	*028	.028	029	.030	.031	*032	.033	034	.035	49
50	'026	'027	028	029	030	031	035	033	031	'035	036	- 037	50
51	.027	'028	'029	.030	.031	032	.033	031	035	.030	.037	.038	51
52	.028	.029	030	.033	.033	031	.032	.036	.*037	.038	.039	010	52
53	.030	.031	.035	.033	.031	.032	.036	.037	.038	.039	*041	012	53
54	'031	.032	.033	.031	.035	*036	.038	.039	*010	.011	.012	*043	51
55	'032	.033	.034	.036	.037	.038	.039	.010	011	.013	-011	015	55
56	033	.031	.036	.037	.038	.039	110.	.042	.013	110	016	017	56
57	'031	'036	'037	'038	.010	.011	.013	.013	*015	046	017	.048	57
58 59	'036 '037	°037	.038	010 011	.015 .011	·012 ·011	·011 ·015	·015 ·046	.018	·047 ·049	019	·050	58 59
								·					
60	038	039	<b></b> 041	042	044	-015	<b>~</b> *047	048	010	—·051	052	'051	60
61	.030	041	.012	.011	.012	.016	.018	.010	.021	.052	.054	.055	61
62	.010	.012	-043	*045	016	.018	.049	.051	052	.054	.055	.057	62
63	.013	.043	.012	.018	'048	.010	.051	052	.054	.022	.057	059	63
64	043	011	.046	018	.049	.051	.052	.054	.056	.057	059	.080	61
65	.041	'016	017	.019	.051	.052	.051	.055	.057	.059	.060	'062	65
66	*045	'047	.010	.020	.052	.054	.055	.057	.059	.080	.062	.064	66
67	.048	048	.050	.052	.053	.05	.057	.058	.060	.062	064	.065	67
68	.018	.049	.021	.053	*055	.056	.058	.060	*062	064	065	-067	68
69	049	.051	.052	051	.056	.058	.080	.062	.083	.065	.067	.069	69

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

Tempora- ture, Fahrenhoit.											>		ł
camemon.	1	Нвідпт	OF THE I	3aromet	RR IN IN	CHES AN	D CORBR	CTION IN	г Весіма	LS OF A	INCH.		Tempera ture, Fahrenhei
	13.2	140	14.5	15.0	15.2	16.0	16.2	17.0	17.5	18.0	18.2	19.0	
0													
70	050	052	051	056	057	059	-061	063	065	067	069	070	70
71	'051	053	'055	.057	.059	.061	.062	.065	.066	.068	.070	.072	71
72	.052	.051	.056	•058 €	:06o	.062	.06.7	.066	.068	.070	.072	.074	72
73	.054	.056	.058	.060	.062	.064	*066	*068	.070	.072	.074	.076	73
71	.055	.057	.059	.061	.063	.065	*067	.060	.071	.073	.075	.077	7.1
75	.056	.058	.080	.062	+004	-066	.068	.071	.073	.075	·077	.079	75
76	.057	.059	.062	180	•066	.068	•070	-072	.071	.076	.078	'081	76
77	058	*061	.063	*065	.067	.069	.071	074	.076	.078	•080	'082	77
78	.060	.062	-064	.066	.068	.071	.073	.075	.077	.080	.082	.084	78
79	'061	.063	*065	.068	•070	072	074	.077	079	*081	.083	.080	79
		061											
80	'062		'067	069	-071	- 074	076	078	cso	'083	085	087	80
81	.063	.086	.068	.070	.073	*075	*077	.080	.085	*084	.087	.089	81
82	*064	'067	.069	.072	.071	*076	*079	*081	.084	.086	*088	'091	82
83	.099	.068	.070	.073	.075	'078	.080	.083	'085	.083	.090	*092	83
84	*007	*069	.072	·07·4	.077	'079	*082	*084	*087	.089	'002	*094	84
85	.068	.071	.073	.076	.078	. '081	.083	.086	.088	*091	.093	*096	85
86	.069	.072	.071	.077	079	.083	*085	*087	.080	'092	'095	*097	86
87	*070	.073	.076	.078	.081	.083	.086	.089	.091	.094	.097	.099	87
88	.072	.074	'077	.080	-082	.085	.088	.090	.003	'095	.098	101	88
89	.073	.076	.078	180°	180	.086	.089	*092	.004	*097	·100	.103	89
90	074	077	:079	082	085	088	090	093		099	—·101	104	90
91	.075	.078	.081	084	-080	-089	092	095		100	103	106	1
	.078	.079	.082	'085	.088	'091	1093	.098		.100	105	108	91
92	'078	•080	.083	.089	.089	092	·095	*098		102	106	109	92
93	.079	.082	-085		.090		*096	.088		105	108	111	93
94		'083	-086	.088		.093		101		107	110		94
95	*080			.080	.092	.095	.008				ł	113	95
96	.081	1084	*087	.090	.093	.006	*099	102		108	111	114	96
97	'082	.085	.088	.092	.092	.098	.101	'104	•	110	113	.116	97
98 99	.081 .082	·087 ·088	.091	•093 •094	·096 ·097	·099 ·100	102	105	10	·111	·115 ·116	.118	98 99
100	086	089	092	098	099	102	105	108	-111	—·115	118	<b>—</b> ·121	100
101	.087	.090	*094	*097	.100	.103	·107	•110	.113	·116	•119	.123	101
102	•088	'092	*095	.098	.101	105	.108	·111	115	·118	•121	124	102
103	.080	.093	*096	*099	.103	.108	109	.113	116	•119	•123	126	103
104	.091	*094	'097	·101	104	·108	·111	•114	· ·118	•121	124	<b>·12</b> 8	104
105	'092	.092	.099	.102	106	·109	•112	•116	•119	·123	126	129	105
106	.093	.097	.100	103	.107	.110	114	·117	121	124	128	131	106
107	1001	.098	101	105	.108	112	115	.119	122	126	129	133	107
, 108	.096	.090	.103	.108	110	113	117	•120	124	.127	•131	134	108
109	007	·100	·104	107	111	115	118	. 122	125	129	132	136	- 109
. 110	.098	102	105	109	1112	116	120	123	127	130	134	138	110

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

			REDUC	TION (	F THE	BARON	ETER 1	ro 32° F	AHREN	HEIT.			
Tempera- ture, Fahrenheit.		Height	OF THE	Baronet	er in In	CHES AN	D CORRI	ECTION I	N DECIM	ALS OF A	n Inch.		Tempera- ture, Fahrenhei
	19.5	20.0	20.5	21.0	21.2	22.0	22.5	23.0	23.2	24.0	24.5	25.0	
o 10	+.068	+.069	+.071	+.073	+:075	+.076	+.078	+.080	+ 082	+.083	+ 085	+:087	-10
9	.008	*068	.069	.071	.073	074	.076	.078	.079	.081	083	'081	9
8	.064	*066	.087	069	.071	.072	.071	.076	.077	.079	.081	.082	8
7	.062	064	•066	.067	•069	.070	.072	.071	.075	-077	.078	.080	7
6	.061	.062	.061	.065	.067	*068	.070	.071	.073	.075	.076	.078	6
5	.059	.060	*062	.063	190	.066	*068	.069	.071	.072	1774	.075	5
4	.057	.059	.090	'061	.063	*061	.088	*067	.069	.070	.072	.073	4
3	.055	.057	.058	.060	.060	.062	.064	*065	.067	*068	.069	.071	3
2	*054	•055	.056	.058	.058	*060	'062	.063	*064	*066	'067	.069	2
-1	•052	.053	'054	*056	'057	.058	*060	•061	*062	*061	.065	*066	1
0	+.050	+ 051	+ .053	+*054	+ 055	+.058	+*058	+.059	+.060	+.061	+,063	+*061	0
+1	'048	.049	·051	.052	.023	*054	*056	*057	'058	.029	'061	'062	+1
2	.018	'048	.010	*050	.051	052	*054	*055	*056	*057	.028	.060	2
.8	'045	1046	.017	.048	.010	*050	.023	.053	*05 £	*055	*056	.057	8
4	.013	.011	.012	046	.012	840	·050	*051	.052	*053	054	.055	4
5	-041	*042	.013	.011	.012	.016	*048	.010	*050	.021	.052	.053	5
6	.039	-010	.043	.042	1014	-044	.040	.017	.018	1049	*050	.051	6
7	.038	.039	.040	.041	012	*042	.011	.011	.046	*016	.017	.018	7
8	.036	.037	.038	.039	.010	.041	.041	.012	·043	.011	·045	046	8
9	.031	*035	.036	1037	-038	.039	.039	.010	.011	042	.013	044	9
10	+*032	+ 033	+ '034	+ 035	+.036	+ 037	+*037	+1038	+.030	+ '010	+ '041	+ '042	10
11	.031	1031	.032	.033	.031	.035	*035	.036	.037	.038	.039	.039	11
12	•029	.030	•030	.031	.032	.033	.033	.031	*035	.038	.036	.037	12
13	.027	'028	.029	*029	.030	.031	.031	.032	.633	.033	.034	*035	13
14	*025	.026	*027	1027	'028	-029	.029	.030	.031	.031	.032	.033	14
15	021	.021	.025	.026	'026	*027	027	*028	*029	.029	030	.030	15
16	.022	.022	*023	021	024	*025	*025	'026	*026	'027	*028	·02×	16
17	020	'021	*021	.022	022	.023	023	.021	024	'025	.025	.026	17
18	.018	'019 '017	.019	.020	.020 .018	·021	021	*022 *020	022	023	023	*024	18 19
19	·017	017	.018	.018	UIA	019	*019	020	020	021	021	'021	18
90	1 =01.5	+.012	+ '016	+ '016	+ '016	+ 017	+*017	+ '018	+:018	+.018	+.019	+:019	20
20	+*015	+·015	+ 016	+ ·016	*016	+*017 *015	*017	*015	*016	-016	*017	*017	20 . 21
21 22	·013	014	014	014	.013	'013	.013	013	014	016	017	017	21 22
22 23	·010	010	012	012	013	013	.011	013	.012	014	014	018	22 23
23 24	.008	.008	.008	.009	.009	009	.009	.009	-010	012	012	012	23 24
. 25	.008	.008	1007	.003	.007	*007	*007	.007	-007	.008	.008	•008	25
. 26	*004	.005	1005	.002	-005	.002	*005	*005	*005	1005	*008	.008	26
26 27	903	.003	.003	.003	.003	1003	.003	.003	.003	-003	.003	.003	20 27
27 28	.001	.001	'001	'001	9001	'001	*001	003	•001	*001	'001	.001	28
29	~.001	<b>-</b> 001	-·001	001	001	·001	001	-001	001	-001	-001	001	29
20	_ ~~	-001	- 001	- 001	- 001	-001	- 501	- 001	- 501	- 001	- 001	501	20

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

		REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.												
Tempera- ture, Fahrenheit.		Hrigh	OF THE	BAROME	TER IN I	NCHES,	ND COR	RECTION	IN DECIM	(ALS OF	AN INCH	•	Tempera- ture, Fahrenhei	
	19.5	20.0	20.2	21.0	21.2	22.0	22.2	23.9	23.5	24.0	24.5	25 0		
30	003	003	003	003	003	003	003	003	0032	003	003	003	30	
31	1001	.002	*005	*005	*005	'005	.002	.002	*005	. '005	.008	1006	31	
32	.008	•006	*008	.007	.007	*007	-007	*007	*007	.008	.008	-008	32	
33	.008	*008	*008	·008	.009	.009	.009	.009	.010	.010	·010	.010	33	
34	.010	*010	.010	.010	·011	.011	.011	*011	.012	.012	.012	.012	34	
35	.011	.012	012	.012	-013	.013	.013	.013	'014	014	.014	.012	35	
36	.013	013	*014	·014	014	*015	'015	·016	.016	.016	.017	.017	36	
37	.012	·015	.016	.016	.016	.017	.017	.018	.018	.018	.018	.018	37	
38	.017	·017	*017	.018	.018	.019	.019	.020	'020	·020	.021	*021	38	
39	.018	.019	.019	*020	*020	.021	.021	-022	'022	023	.023	.024	39	
									.004	-005	*****	.000		
40	'020	- '021	021	022	-022	023	'023	024 - 026	024 - 026	025 -027	·025	'026 '028	40 41	
41	*022 *024	022	·023	024	024	*025 *027	*02/5 *02/7	1026	'028	027	*030	030	42	
42	*025	021	025	025	028	027	027	'030	028	029	032	030	43	
43 44	025	028	027	027	.030	023	023	.032	.033	.033	034	.035	44	
45	.029	.030	.030	023	030	.033	.033	.034	.035	.035	*036	-037	45	
46	023	.031	030	1033	. 034	035	*035	036	037	.038	.038	.039	46	
47	.032	.033	.034	035	.036	.036	.032	*038	.039	.040	041	041	47	
48	.034	'035	.036	.037	•338	*038	.039	*040	011	.042	.043	.044	48	
49	•036	.037	.038	.038	.040	·040	041	*042	043	.044	045	046	40	
50	037	<b></b> ∙038	039	010	041	042	-043	'044	045	016	047	048	50	
51	.039	.040	.011	012	.043	110	'015	046	047	048	•049	·050	51	
52	*041	042	.043	.011	015	-046	047	048	049	.020	'052	.023	52	
53	.013	.011	.045	.048	017	.048	.010	.050	.052	.023	.054	*055	53	
54	.011	046	047	.048	.049	·050	.021	052	.054	.055	.056	.057	54	
55	*016	017	019	.050	.051	.052	.053	.055	056	'057	·058	059	85	
56	*048	.010	.020	•052	.053	.054	055	.057	.058	.059	.060	·061	56	
57	050	•051	052	.054	.055	056	.057	*059	.080	·061	.062	·064	57	
58 59	·051	·053 ·055	·054 ·056	*055 *057	·057 ·059	·058 ·060	059	·061	·062 ·064	063	*065 *067	*068	58 59	
													······································	
60	055	056	058	059	061	062	063	065	066	068	069	070	60	
61	057	*058	-060	'061	062	-064	.065	.067	.068	.070	'071	.073	61	
62	058	.080	.061	.063	.064	.068	.067	.069	.070	.072	.073	.075	62	
63	.080	.062	.063	.065	.086	*088	*069	.071	.072	074	- 076	.077	63	
64	'062	-063	*065	.067	.068	.070	.071	.073	075	.076	078	.079	64	
65	.061	.065	.067	.068	.070	-072	.073	-075	.077	.078	-080	.082	65	
66	·065	.067	.069	.070	.072	.074	.075	.077	079	.080	*082	.084	66	
67	.087	.089	.071	.072	074	076	.077	.079	.081	.083	·084	.086	67	
68	.069	.071	.072	074	.076	078	.079	.081	*083	*085	*086	.088	68	
69	.071	.072	.074	.076	078	.080	'081	*083	*085	.087	.089	-090	69	

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

Tempera- ture, Fahrenheit.	1	Нвіснт	OF THE	BAROMET	er in In	CHES, A	TD COBB	ection 1	n Decim	ALS OF A	n Inch.		Tempera ture, Fabrenhei
	19.5	20.0	20.2	21.0	21.2	22.0	22.5	23.0	23.2	24.0	24.5	25.0	anrenner
۰													
70	-072	074	<b>—</b> .076	<b></b> ·078	080	082	083	'085	'087	'089	091	093	70
71	.071	.076	.078	.080	.082	.083	'085	.087	-089	*091	.093	.095	71
72	.076	.078	.080	.082	180	.082	.087	.089	.091	.093	.095	.097	72
73	.078	.079	.081	.083	'085	*087	.080	.091	.003	'095	'097	.099	73
74	.079	.081	.083	.085	.092	.088	'091	.093	.092	.098	.099	102	74
75	.081	.083	'085	-087	.039	•091	.003	*095	.098	•100	102	101	75
76	.083	085	'087	.089	*091	.003	*095	.097	·100	102	101	.106	76
77	.081	.087	'089	.091	.093	*095	*097	100	102	104	•106	.108	77
78 ·	•086	.088	.091	.093	'093	.097	.099	102	104	.106	'108	'110	78
79	*088	*090	'092	*095	*097	.099	•101	.104	.106	108	·110	·113	79
80	<b></b> ∙090	092	094	096	099	<b>-</b> ·101	<b></b> ·103	-106	108	-110	-113	-115	80
81	.091	160.	-096	.098	'101	103	'105	108	110	.112	115	117	81
82	•093	*095	1098	.100	103	105	107	•110	112	114	117	119	82
83	•095	*097	•100	102	101	107	.100	.112	•114	117	.119	·121	83
81	•097	*099	•101	191	106	.109	111	111	·116	•119	•121	124	84
85	•098	·101	.103	106	.108	111	113	.116	.118	-121	.123	•126	85
86	.100	102	.105	.108	110	1114	·115	118	.120	123	•126	128	86
87	.102	101	107	109	112	115	117	120	·123	.125	128	130	87
.88	.103	.108	'109	1111	1114	117	119	·122	·125	•127	130	.133	88
89	•105	•109	1111	.113	.116	.119	121	121	127	129	132	135'	89
90	—·107	-:109	-112	<b>-</b> ·115	<b>-</b> ·118	<b>—121</b>	<b>—</b> ·123	126	129	<b></b> :131	-134	<b>—</b> '137	90
91	109	111	114	117	120	122	125	128	131	134	136	-137	91
92	110	113	116	119	122	125	127	130	133	136	139	141	92
93	112	115	•118	121	124	126	129	132	135	138	141	144	93
94	.114	117	120	122	125	128	.131	134	137	140	143	146	94
95	.116	118	'121	121	127	130	•133	136	139	142	145	148	95
96	117	120	123	126	129	.132	·135	138	141	144	147	150	96
97	·119	.122	125	128	131	134	.137	140	143	146	149	152	97
98	121	124	127	·130	'133	•136	.139	.142	115	148	152	155	98
99	122	125	•129	•132	•135	138	•141	144	1.47	·151	151	157	99
100	—·124	<b></b> 127	<b>-</b> ·131	-134	—·137	-110	113	-146	150	<b>—</b> ·153	<b></b> 156		100
101	126	127	132	136	139	142	115	148	152	155	158	159 161	100
102	128	123	134	137	111	114	147	148	154	157	160	161	102
103	129	133	-136	139	143	146	149	151	156	'159	163	166	102
104	131	134	138	133	144	148	119	155	158	161	165	168	103
105	'133	136	110	143	146	150	153	157	160	163	165	100	105
106	135	138	111	145	148	152	155	159	162	166	169	170	106
107	136	140	143	117	150	154	157	161	162	168	171	172	107
108	138	141	145	149	152	156	159	163	166	170	173	170	100
109	140	143	'147	150	151	158	161	165	168	172	175	179	109
110	141	145	149	153	156	159	•163	167	•170	174	178	181	110

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

			BEDUC	TION O	F THE	BAROM	ETER T	O 32º FA	HRENH	EIT.			
Tempera- ture, Fahrenheit.		Нвіснт	OF THE	Baronet	er in In	TOHES, A	ND CORR	ECTION 1	n Drcim	ALS OF	N Inch.		Tempera- ture, Fahrenheit
	25.2	26.0	26.2	27.0	27:5	28.0	28.5	29.0	29.5	30.0	30.2	31.0	
-10	+.088	+.090	+'092	+.091	+.092	+:097	+.099	+.101	+.102	+.104	+.106	+.108	-10
-10 9	1086	.088	1092	'091	.093	'095	.096	.098	100	101	103	105	9
8	'084	'085	.087	.089	.090	033	.094	.095	097	.099	.100	102	8
7	082	.083	'085	.086	.088	.090	'091	.093	094	.096	.098	.099	7
6	079	'081	082	.081	.085	.087	.080	.090	'092	.003	.095	.098	6
5	.077	078	.080	.081	.083	084	.086	'087	.089	.090	.092	1091	5
. 4	.075	.076	.078	.079	.080	.082	'083	1085	*086	.088	.089	.091	4
3	072	074	.075	.077	.078	079	.081	*082	.084	·085	*087	•088	3
2	.070	071	073	'074	.076	.077	.078	.080	·081	.082	.081	.085	2
1	.068	*089	.070	072	.073	074	076	.077	-078	•080	•081	•082	-1
0	+ 065	+'067	+.068	+.069	+'071	+.072	+.073	+ 074	+.076	+'077	+ 078	+.080	0
+1	.063	1061	.065	'067	.068 .068	•069	*071 *068	·072	*073 *070	*074 *072	.076	'077	+1 2
2	*061	.062	.063	180		.007	065				1073	071	3
3	*059	.060	.061	*062	·063	.061	'063	*067 *064	*068 *065	.068	067	'071 '068	4
4	*056	'057	.058	*059 *057	·061 ·058	*062	'060	'061	062	.063	*065	1066	5
5	'054	055	.056	057	056	·059 ·057	.028	059	060	061	'062	'063	6
6	'052	1053	054	052	.053	051	*055	.028	*057	058	002	.090	7
7	049	*050 *048	·051 ·049	050	051	052	'053	'051	054	'055	.056	'057	8
8	017	016	010	*047	031	052	*050	.051	052	*053	054	·054	9
10	+ '042	+ 043	+.044	+ 045	+.018	+.047	+ '017	+.048	+.049	+.050	+'051	+'052	10
11	010	011	012	.042	.043	011	.012	·046	046	017	.048	.010	11
12	.038	.039	.039	.040	041	042	012	.013	.011	'015	015	046	12
13	.036	.036	.037	.038	.038	.039	*040	•040	.071	012	.013	043	13
14	.033	.034	.035	.035	.036	.037	.037	.038	*038	.039	.010	.040	14
15	'031	.032	.032	.033	.033	.034	·035	.035	.038	.036	.037	.038	15
16	.029	•029	.030	.030	.031	.032	.032	.033	.033	.034	.034	·035	16 .
17	.026	.027	.027	·028	.028	.029	.030	.030	.031	.031	.032	.032	17
18	.021	.025	025	.025	.028	.026	.027	'027	.028	.028	.029	.029	18
19	.022	•022	.023	023	024	.024	. 024	025	.025	*026	.026	'027	19
					001		1 +000	+.022	+.023	+ .023	+.023	+:024	20
20	+.020	+.020	+ 020	+ 021	+ 021	+'021	+*022		+ 023	1023	023	*024	20 21
21 22	1017	'018	'018	'018	·019	.019	·019 ·017	'020 '017	*017	'018	'018	021	21
22 23	015	.012	.016	.013	016	·016	'014	017	1017	'015	'015	'015	23
23 21	1		·013	013	011	014	012	014	013	'012	.013	.013	21
2 i 25	.010	·011	1011		.009	.009	012	'009	.009	.009	.010	.010	25
26 26	1	.008	. '008	.008	.008	-008	1009	'007	007	1007	'007	*007	26
20 27	.008	*006 *604	*006 *004	.000 400	1004	004	1004	'004	*004	-004	1004	007	27
28	*001	001	001	'001	·001	*001	001	.001	001	'001	'001	001	28
29	-·001	-·001	·001	001	·001	-001	001	·001	-001	-001	-001	-·001	29
40	001	- 001	- 001	001		_001	- 001	001		- 001	002	"	

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

			REDU	CTION	OF TH	E BARO	METER	TO 32° 1	FAHREN	HEIT.			
Tempera- ture, Fahrenheit.		Нкіснт	OF THE	Barome	TER IN I	NONES, A	ND COR	RECTION :	n Dreii	CALS OF	an Inch		Tempera ture, Fahronhoi
_	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.2	31.0	
•													0
30	'004	004	001	'001	004	001	001	001	001	004	001	004	30
31	*006	*006	.006	.006	.006	-006	*006	*007	.007	007	'007	*007	31
32 33	*008	.008	'008	008	009	.009	.009	009	* 012	009	'010	·010	32 33
34	.013	·011	.013	.013	-011	011	012	012	012	012	012	012	33
85	'015	015	015	.016	-016	.016	'017	014	'017	.018	.018	.018	35
36	.017	-013	'018	018	019	.019	'019	017	1020	.020	'021	013	36
37	*019	017	020	018	021	019	019	019	020	023	021	021	
38	019	020	'023	021	.023	021	024	025	022	-026	023	023	37 38
39	'024	021	025	*025	026	026	027	'027	028	028	029	029	39
40	026	027	027	028	028	029	029	030	030	031	031	032	.40
41	029	'029	'030	.030	.031	.031	*032	.033	.033	034	1034	.035	41
42	.031	*031	'032	'033	.033	'034	.031	.035	.036	'036	'037	'037	42
43	.033	031	'034	.035	.036	*036	.037	.038	.038	.039	.040	.040	43
44	*035	•036	.037	.037	.038	.039	*040	·010	.011	042	*012	043	41
45	.038	.038	.039	.010	.041	.041	.043	.043	.043	.011	*015	.010	45
46	.010	.011	'042	012	.013	.014	'045	.012	.016	*047	.048	.010	46
47	.013	.043	.014	.012	-046	016	047	.048	.049	.050	*051	*051	47
48	.042	*045	.046	.017	.018	019	.020	'051	.052	.052	.023	.054	48
49	017	810	.010	-050	.050	·051	.052	.053	*05-1	·055	'056	*057	49
50	049	050	'051	052	053	·05 i	<b>-</b> ·055	056	057	<b></b> •058	059	060	50
51	.051	.052	.053	'051	.055	.056	.057	.058	.059	.060	'061	*062	- 51
52	054	.055	-056	.057	*058	.059	.060	.061	062	.063	*064	*065	52
53	.056	.057	.058	.059	.080	*061	.063	.064	*065	.066	'067	*068	53
54	-058	.059	.060	.062	.063	.061	.065	.066	.067	.068	.020	*071	54
55	-060	-062	.063	·064	.065	*066	.068	-069	.070	.071	.072	.073	55
56	.063	•064	.065	•066	.068	-069	.070	.071	.073	-071	.075	.076	56
57	*065	.066	.068	.069	.070	071	073	.074	-075	-076	-078	.079	57
58	.067	.069	.070	071	.073	074	*075	.077	.078	.079	.081	.082	58
59	·070	.071	.072	-071	*075	*076	*078	*079	*080	*082	.083	*085	59
60	:072	-:073	-·075	-:076	077	079	080	-·082	:083	'085	086	087	60
61	074	-073	-075	-078	-077	-079	-080	-082	-083	-085	-089	-087	61
62	074	-078	077	081	082	.081	085	087	.088	.080	'091	.093	62
63	070	080	079	.083	*085	086	*088	.089	091	.093	094	. 098	63
64	079	082	082	.086	*087	.089	*090	009	094	095	1097	.098	64
65	.083	1085	.086	.088	.080	-091	.093	095	.096	.098	100	101	65
66	085	.087	.080	.000	.092	094	.096	.097	.099	101	102	104	66
67	.088	.088	.091	.093	.095	-096	.098	.100	102	.103	105	107	67
68	.090	*092	*094	.095	.097	.099	101	102	104	106	108	109	68
69	'092	094	990	.098	100	101	103	105	107	109	110	112	69
~		304			100			100		100			-

TABLE I, For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit-(continued).

Tempera- ture, Fahrenheit.		Нвідит					<del></del>		N DECIM		AN INCH.		Tempera- ture, Fahrenhei
	25.2	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.2	31.0	
•											113	115	0
70	095	096	'098	'100	-102 104	101 106	108	108 -110	-109 112	-111 114	116	-118	70 71
71	.097	.099	·101 ·103	·102	104	100	1111	110	112	117	119	110	71 72
72	*099	'101	105	105	109	'111	1113	115	113	119	113	123	73
73	'101	'103	108	110	112	1114	116	118	117	1122	124	126	74
74	104	106	110	110	112	114	118	110	120	125	127	129	75
75	108	108	- 1	1	1114	110	118	120	125	125	129	'131	76
76	.108	110	112	114	117	119	121	123	128	130	132	131	77
77	110	112	'115	117						133	135	137	
78	·113	115 117	'117 '119	·119 ·122	·122 ·124	·124 ·126	·126 ·128	·128	·130 ·133	135	137	140	78 79
79	-115	-117	119	122	121	120		131					
80	117	119	122	121	<b>—</b> ·126	129	-131	133	136	'138	<b>—</b> ·140	-143	80
81	·119	122	124	·126	129	<b>·131</b>	131	136	138	141	143	145	81
82	.122	121	126	<b>12</b> 9	'131	131	136	138	141	143	146	148	82
83	124	126	129	131	134	'136	<b>·13</b> 9	.111	113	146	148	151	83
84	126	129	131	131	.136	.139	141	'144	146	149	·151	154	84
85	128	.131	.133	136	139	·141	111	116	140	•151	154	156	85
86	131	·133 ·	136	'138	141	'144	146	1 19	151	154	156	159	86
87	.133	136	138	141	143	146	149	151	151	157	159	162	87
88	·135	138	'141	143	1146	.149	151	154	•157	<b>·1</b> 59	'162	165	88
89	·137	140	143	145	148	.151	151	156	159	162	165	167	89
90	-140	-142	-145	148	151	153	156	159	-162	<b>—</b> ·161	—·167	<b>—</b> ·170	90
91	112	145	118	·150	153	156	•159	.162	*165	.167	.170	173	91
92	144	147	·150	153	156	158	•161	161	•167	.170	172	175	92
93	147	'149	152	·155	.158	.161	.164	167	170	.173	175	178	93
94	.149	152	155	157	<b>·1</b> 61	163	166	169	'172	175	177	180	91
95	·151	154	.157	.160	.163	166	.169	.172	175	178	180	183	95
96	•153	156	159	.162	165	.168	.171	174	178	'181	183	186	96
97	156	159	162	*165	.168	171	174	177	180	.183	186	189	97
98	158	161	164	167	170	173	.176	179	183	186	188	191	98
99	.160	.163	.166	.169	.173	.176	.179	182	185	188	191	194	99
100	162	- 166	169	172	—·175	-178	-181	185	188	191	-191	197	100
101	165	168	171	171	178	.181	184	187	'190	194	197	.200	` 101
102	167	170	173	177	180	.183	•186	190	•193	196	•200	203	102
103	169	172	176	179	182	.186	189	192	196	'199	•202	•206	103
104	171	175	178	181	185	.188	.192	195	.198	'202	205	208	104
105	174	177	180	184	187	•191	194	197	<b>2</b> 01	204	208	211	105
106	176	179	183	186	'190	193	197	200	.203	207	210	214	106
107	178	182	185	189	192	196	199	203	'206	210	213	.217	107
108	180	184	187	191	195	198	202	205	209	'212	216	219	108
109	183	196	190	193	197	201	201	*208	211	215	218	.222	109
110	185	189	192	196	.199	203	207	210	214	218	•221	-225	110

This table has been extended so as to include ranges of temperature from  $-10^\circ$  to  $10^\circ$ , and from  $100^\circ$  to  $110^\circ$  Fahrenheit and for finches below 20, by means of the formula ( $\hbar$  being the reading of the barometer and t the temperature):  $Reduction = \hbar \frac{0.0001001}{1 + 0.0001001} \frac{(t-32)}{(t-32)}$ 

which is the formula used by Schumacher in the construction of the original table. See Sammling von Hulfstafeln, p. 187, New Ed. Altona, 1845.

TABLE II,
For reducing Observations of the Barometer to sea-level, correction additive.

Barometer reading at sea-level, 30 inches.

				Темр	EKATURE	or Ext	ERNAL A	ir—Deg	REES, FA	HEENTE	IT.			
Heigh <sup>t</sup> in feet.	-20°	-10°	0°	100	20°	30°	400	200	60°	70°	80°	90°	100°	Diff. for 1 inch.
10	·013	-013	.012	.012	.012	-012	·011	.011	.011	-011	.010	*010	.010	•000
20	.026	•025	•025	.024	•023	-023	•023	-022	.022	·021	-021	•020	.020	-001
30	.039	•038	-037	-036	·035	·03 <del>4</del>	.034	•033	.032	.032	•031	.030	•080	·001
40	.052	-050	•049	<b>0</b> 48	-047	046	·045	·04·4	*043	.042	*041	·040	*040	<b>.0</b> 01
50	·035	.063	.061	-080	·05 <b>9</b>	-058	*056	•055	·054	•053	•052	'051	•050	-002
60	.077	·076	•074	-072	•070	•069	•068	.066	-065	.063	.062	*061	•059	.002
70	-090	-088	•086	•084	·082	•081	•078	•077	•076	*074	.072	•071	.069	· <b>0</b> 03
80	.103	•101	-098	-096	•094	-092	•090	088	•086	•084	•082	•081	.079	.003
90	·116	· <b>3</b> 13	•111	•108	105	104	101	•099	•097	·095	-093	.091	.080	•003
100	129	<b>·</b> 126	•123	120	2117	·115	112	110	·108	105	.103	·101	.099	.001
110	142	-139	·135	•132	129	-126	·123	·121	•119	·116	-113	1111	•109	100
120	155	•151	·148	•144	•140	·138	·134	132	129	·126	124	·121	•119	4004
130	168	164	-160	·156	•152	149	146	•143	140	·137	·134	131	·129	*005
140	-181	·176	172	.168	·164	·161	157	•154	•151	·147	144	•141	·139	<b>*0</b> 05
150	194	·189	-185	180	176	•172	•168	·165	·162	•158	.155	·152	·149	.000
160	•206	·20 <b>1</b>	197	192	•187	183	-179	-176	-172	·1 <b>6</b> 8	·165	162	158	·006
170 ·	.518	•214	- 209	204	·199	•195	190	•187	•183	179	175	·172	.168	.000
180	'232	227	-222	216	•211	-206	•202	198	194	189	·185	·182	·178	-007
190	·245	239	•234	-228	-222	-218	213	209	204	*200	·196	·192	·188	-007
200	•258	•252	·246	·240	*234	229	•224	•220	215	•210	206	202	·198	.007
210	•271	•264	-258	•252	246	*240	•235	•231	*226	•221	•216	212	*208	.008
220	284	•277	-270	•264	•257	· <b>2</b> 52	·246	•242	·236	•231	-227	-222	-218	.008
230	•296	•289	•283	-276	•269	•263	257	•253	247	*242	237	•232	•228	•008
240	.309	*302	•295	288	281	-275	•269	•264	•258	•252	*248	*242	-238	.009
250	-822	*314	*307	-300	-293	•286	•280	-275	•269	•263	*258	*253	'248	-009
									•					

TABLE II,
For reducing Observations of the Barometer to sea-level, correction additive—(contd.).

Barometer reading at sea-level, 30 inches.

				Твмр	BRATURE	OF EXT	ERNAL A	re—Degi	rees, Fa	HRENHEI	т.			
Height in feet-	-20°	-109	00	10°	200	30°	40°	50°	60°	70°	80°	900	100°	Diff. fo
260	335	-327	.319	·311	'304	297	'291	*285	279	273	-268	263	257	9009
270	*348	-339	.331	*323	.316	.300	*302	296	'290	284	'278	.273	•267	.010
280	•360	'352	-344	-335	-328	-320	'314	*307	-301	-294	*288	•283	277	.010
290	•373	*364	•356	*347	.339	<b>4332</b>	•325	-318	.311	.302	*299	·293 •	•287	.010
300	.386	.377	.368	•359	351	.343	-336	.329	•322	*315	.309	.303	297	.011
310	.399	.389	.380	371	.343	'354	*317	-310	.333	•326	-319	.313	· <b>3</b> 07	.011
320	112	•402	392	•383	'374	.366	.328	<b>·</b> 351	.313	*336	-329	*323	'317	-012
330	·424	*414	404	-395	· <b>3</b> 86	·377	.360	*302	-351	·317	.310	.333	*326	.015
310	•137	•427	<b>·4</b> 16	.107	· <b>3</b> 9 <b>7</b>	•389	.390	•373	•365	·35 <b>7</b>	*350	-343	'336	*012
350	•450	•439	•429	-419	409	·400	.392	*384	*376	•368	*360	*353	'316	.013
360	163	·451	441	· <b>4</b> 30	•421	411	·403	.391	.386	.378	.370	.363	356	.013
370	.476	.101	•153	·442	432	•423	'114	•405	397	.349	'380	*373	.306	.013
380	488	476	465	.454	.111	.131	425	•416	-408	•399	'391	-383	·375	100.
390	•501	·489	· <del>4</del> 77	-166	455	.716	· <b>4</b> 36	127	418	.410	.401	-393	'385	-014
400	.511	.201	. 188	178	167	·157	-417	.138	-129	•420	.411	403	395	'014
410	·527	.213	·501	-190	179	-168	.128	.119	140	· <b>43</b> 0	·421	413	405	'015
120	.239	·526	.213	.203	.490	.480	.199	· <b>4</b> 60	·450	441	431	423	415	.012
130	.552	-538	•525	.213	.203	·491	-180	.170	.461	•451	•442	•433	125	·015
410	-565	.221	-537	·525	513	-502	191	-181	.171	•162	452	.443	434	•016
450	·578	-563	·550	-537	·525	·513	.203	.492	•182	.472	462	.453	·414	-016
460	•590	.575	.203	-519	-537	·525	-514	•503	·493	.183	172	403	-451	·017
470	.603	-588	571	.241	·5 <b>‡</b> 8	.536	.525	-514	.203	.493	482	.473	·464	·017
480	.616	.600	586	.572	•560	517	·536	521	·51 1	.203	193	483	-471	.018
490	·628	· <b>6</b> 13	.298	-584	.571	-559	.517	•535	-521	514	•503	493	483	018
500	·611	-625	· <b>61</b> 0	-596	.283	.570	.228	·516	*535	-521	·513	.503	.493	.018

TABLE III.

Table of the Elastic Force of Vapour in inches of mercury in the latitude of 22° at sea-level, reduced from the table computed by the Reverend Robert Dixon from Regnault's original data.

0	Inch.	•	Inch.	o	Iı.ch.	o	Inch.	•	Iı ch.	•	Inch.	o	Inch.	o	Inch.
0.0	•0440	6.0	*0578	12.0	·0755	18.0	*0985	210	1282	30.0	.1665	36.0	2126	42.0	2680
.2	.0111	-2	.0583	-2	.0762	-2	1660.	.5	1293	-2	1679	•2	·21 <b>1</b> 3	.5	-2700
.1	*0 k ks	٠.	.0589	٠,	.0769	-4	1003	,4	1301	٠,	1691	.7	2160	4	'2721
.6	0452	.6	·C594	.6	.0776	.6	1012	.6	.1316	;6	1709	.գ	-2177	.6	-27 12
.8	'0456	-8	.0599	-8	.0783	.8	1021	-8	1327	.8	.1723	.8	2191	.8	-2762
1.0	.0460	7.0	·0605	13.0	.0790	19.0	.1030	25.0	.1339	31.0	1738	37.0	2210	13 0	2783
.2	-0465	.5	.0610	-2	·0797	.2	1039	•2	1351	.2	1751	-2	2227	'2	.5801
.1	· <b>046</b> 9	-1	.0616	٠,	1080		1048	.4	1363	•4	1769	.4	2244	-1	2825
.6	0473	.6	0.621	.6	.0811	.6	1057	∙6	1371	.6	1781	ن.	-2262	.6	·22 W
.8	.0177	.8	'0627	.8	.0818	.8	.1066	۰8	1386	-8	1800	-18	2280	.8	2868
2.0	.0485	8.0	.0632	140	.0822	20.0	1076	26.0	1399	32.0	1915	38.0	2298	44.0	*2890
.2	.0486	.2	·0638	-2	.0833	.2	1085	.2	1111	•2	1830	.2	2316	-23	2912
.1	1010.	•4	10641	.4	.0810	•4	1095	-4	1123	.1	1811	.1	2334	-1	2034
٠6	0495	.6	.0610	.6	.0818	-6	1104	-6	1 135	.6	1859	.6	2352	.6	. 12957
.8	*05(A)	-8	.0655	-8	*0855	-8	1111	-8	.1 148	•8	1874	-8	2370	.8	-2980
3.0	0501	8.0	.0061	15.0	.0863	21.0	1124	27.0	1461	33.0	1888	39.0	2388	45.0	.3003
.2	.0509	.2	.0667	-2	·0870	.2	1134	.2	1173	-2	1903	.2	2406	.5	-3026
.4	0513	٠.	0673	-1	.0878	.*	1144	14	1486	.1	.1918		2125	-4	3049
.8	0518	.6	.0679	.6	.0886	•8	1154	.6	1499	.6	1931	.6	2111	-6	3072
-8	.0523	ъ.	.0682	-8	0894	-8	.1161	•8	1512	-8	1949	-8	2 163	-8	19091
10	0527	10.0	0691	160	.0902	22.0	1174	28.0	1526	34.0	1965	40.0	2 182	16.0	'3117
.2	.0532	.5	.0697	.2	·0910	.2	·1184	•2	.1539	-2	1980	.2	2501	•2	:31 10
.1	.0537	.4	-0701	.7	.0919	.4	1195	٠4	1552	٠,	1996	-4	•2520		.3163
-6	.0542	.6	0710	. 6	.0927	.6	1205	.6	1566	•6	2011	∙6	2539	.0	'3187
-8	·0 <b>54</b> 7	-8	.0716	·8	.0935	-8	1216	-8	1579	-8	'2027	•8	2559	.8	'3211
5.0	.0553	11.0	10723	17.0	.0013	23.0	1226	20.0	1593	35.0	2011	41.0	2578	47.0	3235
.2	.0558	.2	0729	.2	.0951	.2	1237	-2	1608	•2	.5060	•2	2598	-2	·3260
4	.0563	-1	.0736	-4	.0960	-1	1249	•4	1622	•4	2076	•4	2619	•4	-3285
.6	*0568	.6	0712	.8	10968	-6	·1260	-6	1636	.6	-2092	.6	-2639	.6	-3310
-8	-0573	-8	.07 10	-8	0977	'н	1271	-8	1650	-8	2109	•8	2659	•8	*3335
					i	i									

TABLE III.

Table of the Elastic Force of Vapour in inches of mercury in the latitude of 22° at sea-level, reduced from the table computed by the Reverend Robert Dixon from Regnault's original data – (continued).

00000	<del></del>													-	
•	Inch.	0	Inch.	o	Inch.	•	Inch.	- •	Inch.	0	Inch.	•	Inch.	•	Inch.
480	3359	51.0	1187	60.0	.2193	66-0	.6700	72.0	7863	78'0	.0801	81.0	1.1676	80.0	1:4128
.2	3381	-2	1217	-2	.230	-2	6451	-2	7918	.2	9667	.2	1 17 52	.2	1.4218
.4	.3109	.4	1249	.1	*5267	.1	·6195	٠,	.7972	14	.9731	.1	1.1828	.4	1.4307
. 6	3 435	-6	1280	-6	·530 <b>1</b>	.6	'6540	-6	*8025	-6	19795	-6	1:1904	-6	1:4397
-14	3460	.8	4311	.8	·53 <b>£</b> 2	.8	-6586	'8	'8078	-8	9860	.8	1.1980	.8	1.1188
400	3486	55.0	.4311	61.0	5379	67.0	·6631	73.0	·8132	79.0	19926	85.0	1:2057	91.0	1.4579
-2	3512	-2	1372	.2	5418	-2	*6076	•2	'8187	•2	.0992	•2	1.2135	•2	1:4670
	3538	٠,	4103	14	5456	٠,	6722	4	*8242	.,	1.0058	'4	1.2213	-4	1.4762
. 6	'3564	-в	1135	.6	·5495	-6	·6769	.6	18297	.6	1.0124	.6	1.2291	•6	1.1854
*8	·3591	-18	1467	-8	5533	-8	<b>·6</b> 816	-8	18353	'8	1,0190	*8	1.2369	18	1:4917
50.0	'3617	56.0	4501	62.0	.5572	68'0	· <b>6</b> 863	710	<b>'841</b> 0	80.0	1.0256	86.0	1.2449	92.0	1.5041
.2	.3611	-2	-4531	•2	5612	.2	·6909	•2	'8166	•2	1.0323	'2	1.2529	'2	1.2132
	3671	.,	1567	•4	5652	4	*6956	•1	*8523	•4	1.0391	.4	1.2009	٠,	1.5229
-6	.3008	.6	.1000	.6	5602	.6	7004	.6	'8581	.6	1.0459	.6	1.2690	.6	1.5324
-8	'3725	ъ	·4633	-8	'5731	'8	7052	-8	·8638	-8	1.0527	•8	1.2771	•8	1.2418
51.0	. '3753	57:0	1666	63.0	'5771	69.0	7101	75.0	*8696	81.0	1.0596	87.0	1.2852	93.0	1.5515
.2	3780	-2	1700	.2	5812	'2	·7150	•2	*8754	•2	1.0664	•2	1.2934	•2	1.2615
	3808	٠,	1733	.,	·5853	.1	.7199	.1	'8812	-4	1.0733	14	1.3016	-14	1.5709
.6	3837	.6	1767	.6	·5891	.6	.7219	.6	*8872	•6	1.0803	.6	1.3099	-6	1.5806
-8	3865	-8	1801	.8	·5935	-8	·7298	-8	.8931	-8	1.0874	-8	1.3182	-8	1.5904
52.0	.3803	58.0	4836	610	-5976	70.0	·7318	76·0	*8990	82.0	1.0918	88.0	1.3266	94.0	1.6003
-2	3921	-2	4870	.5	6018	.2	7398	•2	.9019	.2	1.1018	.2	1.3350	.2	1.6102
-4	.3050	.4	1005	4	.6060	.4	748	.4	9109	-4	1.1090	4	1 9434	.4	1.6202
.6	3979	.6	1911	-6	6102	.6	·7499	.8	.0169	.6	1.1165	.6	1.3519	.6	1.6303
-8	·4008	-8	4976	.8	·61 15	-8	·7550	-8	9230	-8	1.1234	-8	1.3605	-8	1.6403
53.0	4037	59.0	·5011	65.0	· <b>6</b> 188	71.0	•7602	77.0	9292	83.0	1.1306	89.0	1.3691	95.0	1.6504
.2	4067	.2	5047	.2	· <b>623</b> 1	.2	7651	·2	9354	.2	1.1879	•2	1.3778	-2	1.6606
-4	1096	.1	5083	.,	6274	.4	.7706	-4	9417	.1	1.1453	-4	1.3865	-4	1.6709
-6	4126	-6	·5119	•6	6318	-6	.7759	•6	9479	.6	1.1527	-6	1.3952	.8	1.6812
8.	·4156	-8	·5156	•8	·6362	-8	7811	•8	9542	-8	1.1601	·8	1.4040	-8	1.6915

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°.

Wet					VALU	ES OF t-	-# IN DI	GREEN,	FAHRRNII	EIT.				
ť.	0	0.2	1	1.5	2	2.2	3	3.2	4	4.5	5	5.2	6	6.2
0	.011	.038	.033	.027	-021	.015	.010	100.						
1	.010	.010.	.035	.029	'023	.017	012	.006	İ	1		l	1	
2	.018	.042	.037	.031	.025	.010	.011	.003	.002	1	{		-	
3	•050	015	.039	.033	.027	.022	.016	.010	100					
4	.023	.017	140	.035	-030	.021	.018	.012	-007	·001				
5	.055	.050	.011	.038	.032	·026	021	.015	.009	.003		i		
6	.058	'052	910	.041	.035	'029	.023	.017	.013	.006		1		
7	1061	1055	.010	.013	.037	.032	'026	'020	.611	.000	.003		}	
8	.063	.057	.052	016	.010	1034	.020	.023	.017	.011	.002		]	
9	·066	'060	.022	.040	.043	.037	.031	.026	.020	-014	900	.002	1	
10	.000	.063	.028	.052	046	040	.031	.029	.023	.017	.011	.002	j	
11	.072	*067	'061	*055	010	'043	'038	.032	026	020	014	9009	.003	
12	.076	070	.061	.059	052	017	.041	.032	*020	023	018	012	.006	
13	.079	.073	-067	062	056	050	.011	.038	.033	027	.021	015	.000	•00
14	'083	.077	071	1005	050	*053	018	012	.036	.030	021	.010	.013	.00
	VOO				000	0017		VIII	000	00	V21			
15	.080	'081	.055	.069	-0/10	'057	'051	.010	.010.	.031	-0-11	.022	.017	.01
			.075		.063						-028		.020	'01
16 17	1090	.084	*079	.073	.067	*061	·055	.019	110.	.038	'032	.026	1024	.01
18	1004	089	.083	'077	'071	.065 .069	.061	°054	*018	042	*036	.030	029	-02
1	1099	.093	.087	'081	'075				'052		'010		032	.02
19	<b>·1</b> 03	*097	·091	.086	.080	.071	*068	.062	*056	.021	'015	.039	032	102
20	108	102	.098	*090	081	. 078	'073	*067	'061	*055	.049	.043	.038	.03
21	.112	·107	.101	*095	.089	.083	'077	'072	.066	.060	*054	810	012	.03
22	'117	112	.106	.100	004	.088	*082	076	*071	*065	*059	.053	047	.04
23	123	'117	'111	105	.099	093	.088	*082	*076	.070	'064	'058	052	·0:
24	•128	'122	•117	-111	•105	.009	.003	.087	.081	*076	.070	'064	*058	•0•
25	·134	128	•122	•116	·110	.105	.009	.093	.087	.081	.075	.009	7061	.01
26	'140	134	'128	122	.116	111	•105	.099	<b>2093</b>	'087	.081	<b>'07</b> 5	.070	.00
27 23	146	140	134	129	123	117	.111	.105	.099	.093	.087	.082	.076	.02
23	153	117	·141	'135	.129	123	117	.111	.106	·100	100	.088	'082	'0
29	.120	.153	118	142	.136	130	124	-118	.112	106	100	.095	.088	.0

# TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of  $22^{\circ}$ —(continued).

Not			•		VALUE	s of <i>t</i> —	' IN DRO	REES, F.	AHRKNIE 				
110 6.	7	7.5	8	8.2	9	9.2	10	10.2	11	11.2	12	12:5	13
0													
1											1	,	İ
2				•									
3					1								
4	14												
5													
6							į						
7												Ì	
8													
b			İ										
10											1	1	Ì
11							1		- }	İ		1	1
12				Ì									
13					1						]		
11	•001												
15	.005			1			1	ĺ	- 1	1			
16	.009	.003					ŀ				1		
17	.013	.007	.001	1		ļ						į	Ì
18	.017	.011	.002			- 1							
19	•021	'015	.010	1001									
20	.026	.020	.011	.008	.003								
21	.031	025	.019	.013	.007	.001					ł		
22	.036	.030	.024	.018	.012	.006							
23	.011	.035	029	*023	.017	.011	.000						
24	.016	.040	.034	*029	.023	·017	.011	*005					
25	*052	.016	.010	'034	'028	.023	017	·011	.005				
26	.058	.025	.046	.070	034	.028	.023	·017	.011	.002			
27	.064	830.	.052	.046	.040	.035	.029	.023	.017	.011	· <b>0</b> 05		
28	.070	061	•059	.053	'047	*041	*035	.029	.023	'017	.012	.000	
29	.077	.071	.065	.059	.023	.048	*042	.036	.030	024	.018	.012	.006

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches in the latitude of  $22^{\circ}$ —(continued).

Vet bulb							VALUES	or t-	-t' 1N	DEGRE	ES, FA	HRKNH	RIT.					
ť.	0	0.2	1	1.2	1 2	2.5	3	3.2		1.2	5	5.2	6	6.2	7	7.5	н	8.0
30	167	-161	155	.148	113	137	.131	125	119	1116	108	102	*096	.090	180	.078	.072	.00
31	.171	168	162	156	150	144	138	.133	127	121	115	.109	.103	'097	.091	*085	.080	*0;
32	.185	175	169	162	-156	.149	.1 13	.136	.130	123	117	110	.101	1097	.091	.084	.078	10
33	.189	182	176	.169	.103	156	150	113	137	130	124	117	111	104	.008	.091	.085	70
34	197	.190	.181	177	-171	164	.158	.151	145	.138	132	125	-119	112	105	.000	.092	-0
					¦		-	-		-	_		¦ —					
35	.504	.198	.191	185	·17H	172	165	159	152	146	139	133	126	120	.113	107	.100	.0
36	213	.506	200	193	187	.180	.171	.167	.181	.121	-) 17	.111	.131	128	121	115	.108	.16
37	.551	215	.508	201	195	188	.182	175	.169	162	156	.1 19	-143	.136	130	123	117	'1
38	.530	223	217	.310	201	197	191	.181	178	171	165	158	152	·1 45	138	132	125	.11
39	239	.533	.758	219	213	206	.500	.193	·1H7	180	174	167	160	151	117	111	134	12
						-216	209	202	196	-1.10	-2.00							
40	248	242	235	229	222	216	209	202	205	189	183	176	170	163	157	150	111	13
41	258	261	255	248	232	235	229	222	216	209	203	186	179	173	166	170	163	·11
43	278	261	265	250	252	246	239	232	226	. '219	213	206	200	193	176	170	103	16
44	278	282	276	269	263	256	250	243	237	230	223	200	210	201	197	191	181	.12
	200													207	.,,		101	
-15	.300	294	287	281	271	268	261	-251	218	211	235	-228	.222	215	208	202	195	.18
46	.312	305	299	292	285	279	.272	.266	259	253	.216	239	233	226	220	213	207	.20
47	321	'317	310	301	297	291	231	.277	271	261	258	·251	215	.238	231	225	218	.21
48	.336	329	323	.316	310	.303	296	-290	283	.277	270	263	257	250	244	237	.231	.22
.19	.319	312	335	329	322	316	.309	302	-296	289	283	276	270	263	256	250	243	.23
50	362	355	.319	342	.335	-329	322	316	309	302	296	289	283	276	269	263	256	-25
51	.375	.369	.362	.356	349	312	.336	.329	323	.316	.309	.303	296	289	283	276	270	.26
52	-389	.383	376	.370	.363	.256	.350	343	.336	.330	323	317	. 310	.303	.297	290	281	.27
53	404	397	.391	381	377	.371	.361	357	.351	344	-338	•331	324	.318	-311	304	298	•29
54	·419	·412	406	.399	*392	.386	.379	'372	.366	.359	.353	346	.339	.333	.326	.319	.313	•30
	-				-									-				
55	434	-428	421	414	408	.401	.304	.388	:381	.374	.368	.361	.355	348	311	335	328	.32
56	150	.111	437	130	421	117	410	401	.397	.390	.381	377	.371	364	.357	351	.344	.33
57	467	160	153	417	440	433	127	420	414	107	.100	166.	.387	.380	374	367	.360	.35
58	181	477	470	1654	457	450	441	437	.430	421	417	411	404	.397	.391	.384	.377	.37
59	501	104	188	481	175	468	461	455	·448	441	435	128	421	415	.108	401	.395	.38

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

et halb						VA	LUES C	or t-t	IN D	EGREE	, Ган	RENICE	IT.					
ť.	9	9.5	10	10.2	11	11.2	12	12.5	13	13.5	14	115	15	15.5	16	16.2	17	17.5
30	'061	.055	'049	043	.037	.031	.025	.019	.013	·008	.002							
31	.088	.062	.056	*050	.011	.038	.032	-026	.021	·015	.009	.003						
32	.065	.068	'052	.015	-039	.032	.026	.010	.013	.008							İ	
33	.072	.065	'059	'052	.046	.039	.033	.026	1020	.013	.007	•						
34	.079	.073	.086	.060	1053	817	040	180	'027	.021	.014	.008	.001			1		
			_									_			_			
										-000		.010						
<b>3</b> 5	.087	.081	.071	.068	*061	055	.048	042	.035	.029	.022	.018	.009	.003	1001			
36	.095	.089	.082	076	.069	.063	'056	'050	.043	'037	.030	.024	·017	.010	012	.008		
37	101	1097	(6)	.084	'078	071	*065	058	051	045	.038	041	.034	013	012	014	.008	*001
38 39	112	104	108	102	.080	.080	.073 .082	.067 .076	'061 '069	054	017	.018	013	.030	021	014	017	'010
39	121	118	108	102	.095	.089	082	076	(100)	002	056	0.20	(1,5)	1.00	0.50	(123	017	
																-		
40	131	124	117	111	101	.098	.092	'085	·07H	.072	.062	059	.025	.046	.039	.032	.026	0.18
41	110	133	127	120	111	107	101	160.	-088	.081	.075	1068	461	1055	810	042	1035	.029
42	150	144	137	130	126	117	111	104	.098	.091	.085	.078	172	.065	.058	.052	.012	.038
43	.160	151	117	111	131	128	121	-1114	108	101	·095	880	.082	1075	.069	.062	.055	.04
44	171	164	158	151	115	138	132	125	118	112	105	.009	.092	.086	.079	'072	.086	.021
						_			!			_						
										123		110	103	-097	.090	.084	.077	.070
45	182	176	'169	162	156	119	113	136	130	134	116	121	111	108	101	1095	.088	082
46	193	187	180	174	167	161	·154	147	111	146	139	133	1126	120	113	106	100	1095
17 18	217	211	201	185	179	172	178	171	165	158	1.51	145	138	132	110	119	112	10
49	230	223	217	210	'191 '204	197	170	181	177	171	.161	157	151	114	138	131	121	.118
-167	200	0.50	217	210	201	137	100	10.8	""	-//	101	10,	101		100			
								_										
50	213	236	230	.223	.217	210	.203	197	190	181	177	170	161	157	151	111	137	.13
51	256	.250	'243	237	230	223	217	.210	204	-197	190	181	177	171	.164	·157	151	.11
52	270	264	'257	250	214	237	'231	.221	.217	211	201	198	•191	181	178	171	.165	.15
53	.285	.278	.271	*261	.258	*252	245	.238	.232	*225	218	*212	'205	199	192	185	179	177
54	.300	.503	286	280	.273	'266	.560	•253	247	240	*233	-227	.220	·213	207	*200	.191	.18
55	.315	:308	302	295	288	-282	275	-268	-262	.255	248	-242	.235	-229	-222	215	.209	-20
56	-331	303	302	311	301	298	291	281	278	271	261	258	251	241	-238	231	224	.21
57	3317	340	334	327	301	314	307	301	201	287	281	274	*67	261	251	217	-241	.23
58	364	357	351	344	337	331	321	317	311	106.	207	291	284	278	271	261	'258	125
59	381	375	368	361	355	318	311	335	328	321	315	.308	301	295	288	282	275	.26

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# TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of  $22^{\circ}$ —(continued).

Wet bulb		VALUES OF t-t' IN DEGREES, FARRENHEIT.																
	18	18.2	19	19.5	20	20.5	21	21.2	22	22.2	23	23.5	21	21.5	25	25.5	26	20
30								<u> </u>							1			
31									l							İ		
32								ĺ					*					
33																		
31																		
																<u> </u>	-	
35																		
36																		
37														13				
38																		
39	1001											•						
					<b> </b>				_									
40	.013	.006				}												
41	022	.016	.000	.003														
42	.032	026	.019	.013	.006													
13	012	.036	.029	.023	·016	.009	.003											
41	.053	·046	.010	.033	'027	1020	.013	-007										
- 1																		
											-							
15	190	1057	'051	.011	.038	.031	.05 t	.018	.011	.002								
-16	075	.068	'062	.055	019	'012	.036	'029	.022	.016	.009	.003						
47	'087	.080	.073	.067	.060	'051	.017	.011	.031	'027	'021	110	.008					
48	.099	'092	1086	'079	.072	'066	159	.023	'046	.039	.033	.026	020	.013	.007	.0.00		
49	.111	.102	.008	.091	*085	'078	'072	*065	.059	*052	.012	.039	.032	.036	r019	.013	'00G	
					-								-		-			
50	124	.118	.111	101	-09s	.091	-085	'078	'071	.002	058	.052	.012	.038	.032	.025	ъ	-01:
51	138	.131	124	118	111	101	.008	.091	.082	.028	170	'065	058	'052	.042	-034	.033	.05
52	151	115	.138	131	125	.118	.113	. 105	1098	-002	085	.079	072	·065	.020	-052	010	-03
53	165	159	152	146	-139	132	126	.119	113	106	.099	.003	.086	.079	.073	.066	.090	.02
51	'180	171	167	-160	.121	147	.111	-131	127	-121	111	'107	101	1-60.	.088	.081	.074	.06
5.5	·195	189	182	176	.169	162	156	-1 <b>1</b> 9	112	136	129	·123	.116	109	.103	.096	.089	.08
56	211	205	198	191	185	178	171	165	158	151	115	138	132	125	118	112	.105	.09
57	228	.22	211	208	•201	191	-188	.181	174	108	-161	151	118	-141	135	128	121	·11
58	214	238	.231	221	218	211	201	198	-191	181	178	171	:164	158	151	115	138	13
50	262	255	218	212	.532	228	-222	215	208	.202	195	188	182	175	.168	162	155	114

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb		VALUES OF t-t' IN DEGREES, FARRENHEIT.																
	0	0.2	1	1.2	2	2.2	3	3.2	4	4.5	5	5.2	6	6.2	7	7.5	8	8.0
60	.519	.513	.506	.199	:193	-186	.479	17:3	466	159	153	146	-439	433	420	419	413	-40
61	.238	.231	.225	.218	-511	-505	498	-101	.182	478	-471	.465	458	•451	415	.138	431	-12
62	·55 <b>7</b>	.551	.211	.237	.231	521	.217	-511	\$501	-497	191	.484	.477	*470	464	.457	•450	.11
63	·577	.570	.564	-557	.220	-511	.537	.230	.524	-517	.210	.201	-497	.490	481	.477	.470	1.16
61	·598	-591	.284	.578	.221	·5 <b>84</b>	-558	.221	.211	-537	.231	.524	.517	'511	.201	197	.491	148
				-		-								ļ				
65	-619	.612	'605	.599	.592	*585	.579	.572	-565	*559	.552	·515	.539	.532	.525	.518	.512	.50
66	·641	-631	-627	621	'61 1	-607	'600	.594	-587	.580	-574	-567	•560	.554	-547	.240	.533	.52
67	.663	.656	.650	.613	.636	.630	623	.616	.610	.603	-596	.280	.283	.576	-569	.263	-556	.51
68	.636	-680	.673	-666	.660	.623	.616	-639	-633	-626	-619	.613	.608	.209	.592	.286	.579	-57
69	.710	.703	-697	.690	'683	'677	'670	-663	.626	.650	.013	.636	-630	623	-616	.609	.603	-59
-	.735	.728	721	-715	.708	-701	-695	-688	-681	-671	:668	-661	.651	-617	-641	.631	-627	-62
70	750	728	747	710	708	701	720	713	706	700	693	686	679	673	.666	659	653	-61
71 72	786	780	.773	766	759	753	746	713	732	726	719	712	706	699	.602	.685	679	-67
73	813	1807	*800	.793	786	780	773	706	759	753	716	739	732	726	719	712	705	-60
71	841	.831	.828	-821	1811	-807	'801	704	787	780	771	767	760	753	717	710	733	72
					0,1	507	O.											_
	·870	'863	·856	.849	-813	.836	1820	-822	.816	.809	.802	.795	789	-782	.775	.768	.762	75
75	.899	.803	.886	'879	1872	*865	·858	852	.812	.838	'831	1825	1818	.811	.804	708	702	.78
76 77	929	922	916	909	902	1895	.889	-882	875	-868	'862	*855	*848	-841	1834	.828	*821	.81
78	.900	954	1917	910	933	.927	920	.913	900	.899	1803	1886	1879	.872	-866	.859	853	.81
79	993	986	979	972	.966	959	952	915	938	932	925	918	.911	904	1898	.891	*884	-87
80	1.026	1.019	1.012	1.002	-998	-992	.085	-978	-971	965	.958	<b>'9</b> 51	-941	.937	.931	921	-917	91
81	1 060	1.023	1.016	1.039	1.032	1.026	1.019	1.012	1.002	998	992	.985	978	971	965	958	951	91
82	1.000	1.088	1.081	1:074	1.067	1.061	1.024	1.012	1.010	1.033	1.027	1.020	1.013	1.008	.000	-993	.986	.97
	1.131	1.124	1.117	1.110	1.103	1.097	1.000	1.083	1.076	1.060	1.063	1.020	1.010	1.012	1.035	1.029	1.022	1.01
84	1.168	1.161	1 151	1.117	1.110	1.134	1.127	1.120	1.113	1.106	1.100	1.093	1.086	1.079	1.072	1.065	1.059	1.05
														and the same of th				
85	1.206	1.199	1.192	1.185	1.179	1.172	1.165	1.158	1.121	1.144	1.138	1.131	1.124	1.117	1.110	1.103	1.097	1.08
3	1.245	1.238	1 231	1.524	1.218	1.511	1.204	1.197	1.190	1.183	1.177	1.170	1.163	1.156	1.149	1.142	1.136	1.15
	1.285	1.278	1.272	1.262	1.258	1.251	1.211	1.237	1.231	1.224	1.217	1.210	1.203	1.196	1.190	1.183	1.176	1.10
	1.327	1.320	1.313	1:306	1.299	1.595	1.286	1.279	1.272	1.265	1.258	1.251	1.245	1.238	1.231	1.224	1.217	1.21
1	1.360	1:362	1.355	1 349	1.342	1.335	1.328	1.321	1.314	1.308	1.301	1.294	1.287	1.280	1.273	1.260	1.260	1.25

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 39.7 inches and in the latitude of  $22^{\circ}$ —(continued).

		попе	38 81	ia in		18111				===						·	<del></del>	
Wet bulb		1	1	1	ı	V A	LUES O	<del></del>	IN DE	GREES,	FAHR	<u></u>	r. I	<del></del>	,	1	1	ī
	9	9.5	10	10.2	11	11.2	12	12'5	13	13.2	14	145	15	15.5	16	16.2	17	17.5
60	399	.393	.386	·379	373	.366	359	*353	.316	·339	.333	.326	.319	313	.306	.300	.293	286
61	418	411	405	-398	.391	·385	.378	·371	-365	·358	.351	.312	.338	.331	325	·318	311	.302
62	437	· <b>43</b> 0	424	417	.110	404	397	.390	.381	.377	370	*364	.357	.350	314	.337	.330	.324
63	157	· <b>45</b> 0	.411	·437	430	421	417	· <b>41</b> 0	·403	.397	.390	.383	·37 <b>7</b>	·370	.363	.357	350	.313
64	· <b>4</b> 77	171	.464	•457	·451	441	· <b>4</b> 37	·430	-424	417	·410	.404	:397	<b>.3</b> 90	.381	.377	*370	361
65	·498	492	.485	478	472	'465	458	.452	445	438	-431	425	418	'411	.405	.398	391	.385
66	520	.513	.507	.500	403	487	480	473	466	*460	453	146	.110	433	126	.420	113	406
67	.542	.536	529	.522	516	509	502	-496	*489	482	475	469	462	455	149	442	435	428
68	.566	559	552	515	.539	.532	.525	· <b>5</b> 19	.512	*505	•498	102	185	178	172	465	458	±51
69	.280	.583	·576	.269	.562	.556	*549	*542	.535	·5 29	.522	·515	•509	.502	-495	488	492	175
70	614	.607	.600	594	.587	·580	.573	·567	•560	•553	.212	.210	•533	.526	.20	.213	.208	499
71	.639	.632	·626	·619	.615	'605	•599	.592	•585	•579	.572	*565	'558	.552	'545	.238	.231	.25
72	·665	·658	652	·645	.638	·631	625	618	'611	·604	•598	.291	.284	.577	.571	.264	'557	.221
73	692	.685	.678	.672	.665	.628	.651	615	-638	.631	624	.618	.611	601	•597	·591	.581	.577
74	.720	.713	'706	•699	.693	.686	-679	.672	-666	·629	.652	·645	.639	632	625	.618	.612	.605
75	748	.741	'735	.728	'721	714	.707	.701	·691	*687	.080	.674	.667	.660	653	617	640	.633
76	'777	.771	'761	.757	.750	.741	.737	.730	.723	.716	.710	703	.696	.689	·68 <b>3</b>	·676	.669	·662
77	*807	.801	794	:787	'780	.774	.767	.760	.753	746	740	.733	.726	.719	.713	.706	.699	'692
78	.838	.832	*825	*818	·811	.802	.798	.791	.481	'778	'771	.764	.757	.750	.744	.737	.730	'723
79	·871	.864	*857	·850	*813	.837	-830	*823	·816	·810	.803	:796	.789	.782	.776	·769	.762	.755
80	.903	*897	-890	*883	*876	-870	-863	-856	-849	-842	-836	-829	-822	-815	*808	-802	.795	.788
81	937	.931	924	917	910	.903	1897	.890	-883	-876	.869	.863	*856	-849	-842	*835	829	822
82	972	965	959	952	945	.938	.931	.925	.918	911	904	1897	-891	-884	-877	-870	-863	-857
83	1.008	1.001	994	988	.981	974	967	960	954	947	-940	.933	1926	.920	.913	.906	-899	1892
84	1.045	1.038	1.031	1.025	1.018	1.011	1.004	1997	.991	984	977	970	.963	.956	.950	.943	.936	.926
				-			_									-	·	-
85	1.083	1.076	1.069	1.063	1.056	1.049	1.042	1.032	1.028	1.022	1.012	1.008	1.001	991	.888	.981	.974	.967
86	1.122	1.112	1.108	1.102	1.092	1.088	1.081	1.074	1.067	1.061	1.054	1.047	1.040	1.033	1.026	1.020	1.013	1.006
87	1.162	1.155	1.149	1*142	1.132	1-128	1-121	1.114	1.108	1.101	1.094	1.087	1.080	1.073	1.067	1.060	1.023	1.04
88	1.503	1.197	1.190	1.183	1.176	1.169	1.162	1.158	1.149	1.142	1.135	1.128	1.121	1.112	1.108	1.101	1.097	1.087
89	1.246	1.239	1.535	1.225	1.219	1.515	1.205	1.198	1.191	1.181	1.177	1.171	1.164	1.157	1.120	1.143	1.136	1.129

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of  $22^{\circ}$ —(continued).

Wet bulk						v	ALUES	ov <i>t</i> —	t' in i	egre .	FAH	PRNHI	IT.					
ť.	18	18.2	19	19.5	20	20.5	21	21.5	22	22.5	23	23 5	24	24 5	25	25.5	26	26
60	280	273	266	260	253	246	240	233	226	220	213	206	200	193	186	180	173	16
61	•298	-291	-285	.278	.271	265	.258	•251	245	*238	-231	225	'218	211	.205	198	191	-18
62	'317	.310	304	-297	•290	'284	.277	.279	.261	257	250	-244	.237	*230	.224	217	210	.20
63	.337	.330	.323	:317	.310	.303	.297	290	.283	.277	.270	263	256	250	243	236	•230	.22
64	.357	*350	344	.337	.330	323	.317	-310	.303	*297	'290	.283	.277	270	263	257	.250	•2
																		_
65	.378	371	1965	'358	351	311	.338	331	-324	.318	:311	.304	298	•291	284	278	.271	-26
66	399	.393	*386	379	.373	.366	.359	.353	316	-339	332	326	319	312	306	270	292	.28
67	122	-115	.198	412	1395	388	*382	.375	:368	.361	*355	-318	-311	335	328	321	314	.30
68	145	•438	.431	.425	418	.111	1404	*398	.301	:381	378	.371	364	357	351	'344	*337	.33
69	.469	.462	-135	'419	.111	435	428	421	115	.498	·401	391	.388	.381	374	368	361	.3
				Ī														
70	193	186	479	473	166	•459	*452	416	'439	432	•426	419	.412	105	.399	392	*385	.3
71	'518	.211	504	-498	191	181	478	471	-131	457	451	444	' <del>4</del> 37	*430	.424	'417	.410	.4
72	541	537	:530	'524	'517	510	.203	197	190	483	476	*470	.163	456	149	'443	·436	4
73	'570	561	557	-550	544	.537	*530	523	517	.210	503	*496	490	*493	176	469	463	4
74	1598	-591	*585	.678	.571	'564	*558	.551	.241	'537	'531	.21	*517	.210	.201	407	.490	146
						-										-		
75	··626	.620	.613	.608	.599	.293	•586	.579	.572	•566	·559	.552	*515	'539	.532	•525	.518	.51
76	'650	649	-642	.635	629	'622	.612	*608	·601	*595	.588	.281	.571	'568	-561	.551	.517	.54
77	.086	.679	.672	-665	-658	.652	-645	-638	.631	-625	.618	·611	.601	'598	.591	.284	.577	.5
78	.717	.710	.703	-696	.689	'683	-676	-669	.663	.656	.649	612	.635	.628	.622	.615	.608	·60
79	'748	.712	·735	.728	'721	.715	.708	.701	.694	-687	'681	674	-667	.660	·654	-647	'640	-63
						1												
80	.781	.774	.768	.761	.751	.717	.741	734	-727	.720	.713	-707		603	-686	.070	.070	.00
81	'815	.808	*801	795	788	781	774	767	761	754	713	707	700	.693	720	·679 ·713	·673	.66
82	*850	-843	*836	829	1823	816	-809	-802	701	789	782	775	733	761	720	713	'706 '741	75
83	*886	879	872	'865	1858	*852	*845	.838	.831	824	817	-811	1804	701	790	783	741	-77
84	922	916	.909	902	*895	*888	'881	*875	'868	861	854	-847	841	.834	*827	.820	'813	-80
												"-"	"		J.,		010	30
85	.960	*953	947	.910	.933	.926	.910	.815	.906	.899	*892	*885	*878	.872	*865	*858	'851	'84
86	.999	992	.985	.979	.972	.965	.958	.951	944	.938	931	921	-917	'910	904	1907	.890	.88
u 87	1.039	1.032	1.026	1.019	1.015	1.002	.998	991	*985	978	971	.961	957	'950	'944	937	.830	'92
88	1.080	1.074	1.067	1.060	1.023	1.046	1.039	1.032	1.026	1.018	1.012	1.002	-998	991	1985	978	971	.96
89	1.123	1.116	1.109	1.102	1.095	1.088	1.082	1.075	1.068	1.061	1.051	1.047	1.040	1.034	1.027	1.020	1.013	1.00

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of  $22^{\circ}$ —(continued).

ſ							_				-							<del></del>
Wet bulb				,		V <sub>A</sub>	rango	<b>r</b> t−t'	IN DE	GREES,	FAHR	ENHEIT	·.					
.	27	27.5	28	28.2	29	29.5	30	30.2	31	31.2	32	32.5	33	33.2	31	31.2	35	35•5
55	.076	.069	.063	.056	.050	.013	-036	.030	.023	*016	.010	.003						
56	.092	.085	.078	.072	•065	.059	.052	.045	.039	.032	*025	.019	.012	.005				
57	.103	101	.095	.088	.081	'075	.068	.061	*055	.048	'041	.035	.028	.022	.012	.008		
58	.125	118	111	.102	.098	.091	'085	.078	.071	.062	058.	•051	·045	.038	.032	.025	.018	.012
59	142	135	·128	·122	115	108	102	·095	.088	'082	.075	-069	.062	.055	.040	.042	.035	'029
60	.160	153	146	140	133	126	120	·113	106	.100	.093	'086	.080		.066		-053	.016
61	178	171	165	158	151	115	138	131	125	118	111	105	.098	.091	.085	078	.071	*065
62	197	190	183	177	170	.163	.157	·150	113	137	.130	123	117	-110	103	.097	.090	.083
63	216	210	.203	196	.190	183	176	170	163	156	.120	1 13	136	130	123	·116	.110	.103
64	237	.530	.223	217	·210	.503	·196	.190	.183	.176	170	.163	156	.150	143	.136	.130	123
								_									-	
65	.257	.251	.511	-237	.231	.551	.217	211	201	197	•191	181	.177	.170	.161	·157	*150	111
66	279	'272	265	259	.525	215	239	-232	*225	219	*212	•205	198	192	185	178	172	.162
67	.301	291	*258	'281	'271	268	.261	.525	217	211	231	*227	.221	214	.207	.500	.10 f	187
68	*324	·317	.310	304	297	290	281	.277	270	.501	.257	.250	213	.237	230	*223	.217	.210
69	·3 <b>1</b> 7	.311	.331	.327	·320	314	307	.300	.291	'287	.580	.273	*267	.260	.253	-217	240	.533
70	'372	*365	.328	.352	315	:338	.331	*325	318	:311	.30 !	.208	.201	.281	.278	'271	·26 l	'257
71	'397	.390	.383	.377	370	*363	.356	.320	:343	.336	.329	323	.316	.309	.303	.296	259	'282
72	123	116	-109	.402	.396	:389	382	'376	.369	362	355	318	.315	.332	328	321	315	*308
73	449	112	.136	*429	'422	415	.100	1/92	-395	.388	*382	*375	.368	-361	*355	.318	341	.331
74	.177	'470	.463	. 120	-450	.413	.130	-129	-423	416	.109	.402	.396	-389	'382	-375	.369	*362
75	•505	.498	-191	.185	178	.471	461	-157	-151	-414	:437	.130	421	-417	•110	*403	*397	.390
76	.231	-527	.520	.211	507	.500	•193	187	·480	.473	-166	459	453	146	139	432	126	.119
77	-561	-557	.550	*543	.537	-530	.523	.216	.210	.203	-196	•189	452	.476	-469	.462	•155	. 1 10
78	.202	.288	.281	.574	-567	.561	-551	-547	.210	.231	-527	1520	.213	.206	.500	493	.186	.479
79	-626	*620	.613	.608	.599	.293	.286	.579	.572	.262	•559	*552	.212	.238	.231	.525	•518	·511
¦				<b> </b>		_												-
80	-659	-652	615	.639	.632	-625	618	612	.605	-598	•591	581	.578	'571	.261	.557	•550	'544
81	.603	-686	-679	-672	-666	-659	-652	7645	.638	.632	·625	.618	.611	·60 L	.258	.201	•584	·577
82	.727	.721	714	.707	.200	.693	.687	.080	.673	.666	·659	•653	·646	.639	.632	·625	· <b>61</b> 9	.612
83	763	.756	·740	'743	736	720	.722	.715	.709	.702	·695	.688	.681	.675	.668	.601	654	·617
84	.800	.793	.786	.779	.772	·766	759	.752	715	738	.732	'725	718	711	704	.697	.691	·68 <b>2</b>
85	.637	'831	824	.817	'810	.803	.797	790	783	.776	.769	762	756	719	742	735	.728	721

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of  $22^{\circ}$ —(concluded).

Wet					VALT	us of t	-t' in di	kgrkes, l	FAHRENH	KIT.				
oulb t'.	36	36.2	37	37.5	38	38.5	30	39.5	40	40.2	41	41.2	42	42
55														
56														
57														
58	.002													
59	·022	.012	.000	.002	•									
60	010	.033	.026	.020	.013	.006								
61	'058	.021	.012	.038	.031	.025	.018	·011	'005					
62	'077	.070	.063	.057	.050	.013	.037	.030	023	·017	·010	.003		
63	.096	.080	.083	.076	.069	.063	1056	'010	.013	.036	.029	.023	.016	.00
61	116	·110	.103	.096	.089	.083	-076	.069	.063	-056	.070	.013	0:36	.02
65	·137	130	124	.117	-110	103	.097	.000	.683	.077	.070	.003	.057	.02
66	158	.152	-145	138	132	-125	118	111	.102	.098	.001	.082	*078	.02
67	.180	171	167	160	151	117	-110	133	127	120	113	.107	·100	.01
68	203	196	190	183	176	170	163	156	.119	-113	130	129	122	1
69	'226	220	213	'206	200	.193	.186	.179	·173	.166	159	-153	146	-13
70				231	-221	217	210	201	197	199	183	177	170	16
71	276	269	262	255	249	212	235	229	.222	215	208	.203	195	.16
72	301	295	288	281	271	268	261	254	217	241	234	-227	220	.21
73	328	321	314	307	301	294	287	·2×1	-274	-267	260	254	247	22
71	355	318	312	335	328	-321	.312	:308	.301	291	288	281	274	.26
					356	-31)		-336	-329	*322	'316	:309	302	-20
75	383	.376	'370	*363	385	378	372	.365	358	351	314	.338	331	.3:
76	112	405	399	392	.112	-408	.101	394	388	381	371	*367	'361	-38
77	442	435	128	122	115	439	-132	125	118	.412	405	*398	*391	-35
78 79	·173 ·501	166	·459 ·191	152	1477	.470	.191	157	450	.413	137	.130	.423	-10
				:517	-510		-196	-180	- 183	-176	-469	462	-456	1.1
80	537	.530	·523	-517	513	536	-530	523	-516	.2.0	'502	196	-489	-1
81	·570 ·605	-561	*591	.585	578	.571	-564	-557	.051	544	'537	.530	•523	.5
82		.631	-627	620	613	-606	-600	-593	-586	.579	.572	'566	.559	-5
81	·610 ·677	670	.063	657	-650	613	-636	-629	623	·616	.009	602	*595	-5
	-715	•708	.701	-694	-687	·681	.674	-667	*660	-653	*616		-633	.65

TABLE V,

Wet					Vabu	RS OF t	t' IN DE	дики, F	'AHRENH	BIT.			<del></del>	
bulb t'	0	0.2	1	1.2	2	2.2	3	3.2	4	4.2	5	5.2	6	6.2
. 0	100	84	70	57	41	31	19	7						
1	100	85	71	58	-46	33	22	11						
2	100	86	73	60	48	36	25.	16	3					
3	100	87	71	61	50	38	28	17	7					
4	100	87	75	63	52	41	30	20	31	2				
5	100	88	76	64	51	43	33	23		5				
6	100	88	76	65	56	45	35	26	14 17	8				
7	100	88	77	67	57	47	37	28	19	11	4			
8	100	89	78	69	58	10	40	31	22	14	7			
9	100	89	78	69	60	51	12	33	25	17	10	2		
10	100	89	79	70	61	53	41	36	28	20	13	6		
11	100	90	79	71	62	54	46	38	30	23	16	9	3	
12	100	90	80	72	63	55	48	40	33	25	19	12	6	
13	100	90	81	73	65	57	49	41	35	28	21	15	٦,9	8
14	100	91	82	7-1	66	58	50	43	36	30	23	18	12	6
15	100	91	83	75	67	59	52	45	39	33	26	20	15	9
16	100	91	83	76	68	61	54	47	41	35	29	23	17	12
17	100	92	81	76	69	62	56	49	43	37	31	26	20	15
18	100	92	81	77	70	63	57	51	41	39	33	28	23	18
19	100	92	85	78	71	64	58	52	46	41	35	30	24	20
20	100	93		79	72	65	59		48	42	37	32	27	22
21	100	93	86	79	72	66	60	53 55	49	44	39	34	29	25
22	100	93	86	80	73	67	61	56	51	46	41	36	31	27
23	100	93	87	80	74	68	63	57	52	47	42	37	33	29
21	100	93	87	81	75	69	61	59	53	49	44	39	35	31
25	100	93	87	81	75	70	65	60	55	50	45	41	37	33
26	100	94	88	82	76	71	66	61	56	51	47	42	38	35
27	100	91	88	82	77	72	67	62	57	53	48	41	40	36
28 29	100	94	88	82 83	77	72	68 68	63	58 50	51	50 51	46	42	38 40
29	100	8.1	88	83	78	73	68	61	59	55	51	*/	44	40

Wet bulb t'					Valu	es of <i>6</i> -	-t' in de	GREES, I	AHRENH	BIT.				
bulb t'	. 7	7:5	8	8.2	9	9.2	10	10.2	11	11.2	12	12.2	13	13.2
0														
1														1
2														
3														
4	-													
Б														
6														
7														
8														
9														
10														
11											}			
12														ļ
18														
14	1													
			·											
15	4													
16	7	2												
17	10	5	1											İ
18	13	8	4											ł
19	16	11	7	8										
20	18	13	9	6	2									
21	20	17	12	8	5	1								
22	23	19	14	11	7	4						1		
23	25	21	17	13	10	7	3							
24	27	23	19	16	13	9	6	3						
25	29	25	21	18	15	12	8	5	2					
26	31	27	23	20	17	14	11	8	5	2				
27	32	29	25	22	19	16	13	10	7	4	2			
28	34	30	27	24	21	18	15	12	9	7	4	1		
29	36	32	29	26	23	20	18	15	12	9	7	4	1	1

TABLE V,

Wet						1	ALUKS	of <i>t</i> -	-t' in	DEGREI	es, Fai	RENII	sir.		T. 7 -12:07			
bulb <i>t</i> '.	0	0.2	1	1.2	2	2:5	3	3.2	1	4.5	5	5.2	6	6.2	7	7.5	8	8.2
30	100	91	90	85	79	71	69	61	60	56	53	10	45	11	37	31	31	28
31	100	91	90	85	79	71	69	65	62	58	54	50	47	43	39	36	33	30
32	100	94	90	85	79	75	70	65	61	57	53	49	15	41	38	31	31	28
33	100	94	90	85	80	75	70	66	62	58	51	50	46	43	39	36	33	30
34	100	95	90	85	80	76	71	67	63	59	55	51	. <u>18</u>	41	41	37	31	31
35	100	95	90	86	81	77	72	68	61	60	56	53	49	46	42	39	36	33
36	100	95	91	86	81	77	73	69	65	61	57	54	50	47	41	40	37	31
37	100	95	91	86	82	78	71	70	66	62	58	55	51	48	45	42	39	36
38	100	95	91	87	82	78	71	70	66	62	59	56	53	49	16	43	40	37
<b>3</b> 9	100	95	91	87	83	79	75	71	67	63	60	57	53	50	47	11	41	38
																1	1	
40	100	95	92	87	83	79	75	72	68	64	61	57	54	51	48	45	13	40
41	100	95	92	88	83	79	76	72	68	65	62	58	55	52	40	46	41	41
42	100	96	92	88	81	80	76	73	69	66	63	59	56	53	50	47	15	12
43	100	96	92	88	81	80	77	73	70	66	63	60	57	51	51	48	46	43
11	100	96	92	88	81	81	77	71	71	67	61	61	58	55	52	40	47	41
				-						_								
15	100	96	93	89	85	81	78	71	71	68	65	62	59	56	53	50	48	45
46	100	96	93	89	85	82	78	75	72	69	66	63	60	57	5-1	51	49	16
47	100	96	93	89	85	82	79	75	72	69	66	63	61	58	55	52	50	47
48	100	96	93	89	86	82	79	76	73	70	67	61	61	59	56	53	51	48
40	100	96	93	90	86	83	79	76	73	70	68	65	62	59	57	54	52	49
														-				-
<b>5</b> 0	100	96	93	90	86	83	8C	77	74	71	68	65	63	60	58	55	53	50
51	100	96	93	90	86	83	80	77	71	71	69	66	63	61	58	56	51	51
52	100	96	93	90	87	84	80-	78	75	72	69	67	61	61	59	57	55	52
53	100	96	94	90	87	84	81	78	75	72	70	67	65	62	60	57	55	53
54	100	96	91	91	87	81	81	78	76	73	70	68	65	63	60	58	56	54
55	100	97	94	91	87	84	81	79	76	73	71	68	66	63	61	59	57	55
56	100	97	91	91	88	85	82	79	76	74	71	69	67	64	62	60	58	55
57	100	97	94	91	88	85	82	79	77	74	72	69	67	65	63	60	58	56
58	100	97	94	91	88	85	82	80	77	75	72	70	68	65	63	61	59	57
59	100	97	94	91	88	85	83	80	78	75	73	70	68	66	64	62	60	58

TABLE V,

	Wet	1					V	ALUES	or t-	t' in i	PEGRE	s, Far	IRRNAI	IT.					
31 27 24 22 19 16 14 13 19 0 7 5 3 1 1	bulb t.	9	9:5	10	16.2	11	11.2	12	12.5	13	13.5	14	14.5	15	15.2	16	16.2	17	17
32         25         22         19         16         13         11         9         6         4         2   .	30	25	22	20	17	15	12	9	7	5	8	1							
33	31	27	24	22	19	16	14	12	9	7	5	3	1						
34 28 26 23 20 17 16 13 10 8 6 4 2	32	25	22	19	16	13	11	9	6	4	2						1		
35         30         27         26         22         19         17         15         12         10         8         6         4         2         1         1         15         12         10         8         6         5         3         1         3         36         31         20         28         25         23         20         18         16         14         12         10         8         6         5         3         1         38         34         39         29         27         24         22         20         18         16         14         12         10         8         6         5         3         1           39         36         33         31         28         26         24         22         20         18         16         14         12         10         9         7         6         4           40         37         35         33         31         29         27         25         23         21         19         18         16         14         12         10         9         7         6         4           41         38	33	27	24	21	18	15	13	11	8	6	4	2	l		1				
36         31         20         26         24         21         19         16         14         12         10         8         6         5         3         1         8         6         5         3         1         1         18         16         14         12         10         8         6         5         3         1         2         20         18         16         14         12         10         8         6         5         3         1         2         20         18         16         14         12         10         8         6         5         3         2         3         2         3         2         2         20         18         16         14         12         10         9         7         6         4           40         37         35         33         31         29         27         25         23         21         19         18         16         14         12         10         9         7         6         4           41         38         36         34         32         30         28         26         24         22         21 <td>31</td> <td>28</td> <td>25</td> <td>23</td> <td>20</td> <td>17</td> <td>15</td> <td>13</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	31	28	25	23	20	17	15	13	10	8	6	4	2						
36         31         20         26         24         21         19         16         14         12         10         8         6         5         3         1         8         6         5         3         1         8         6         5         3         1         8         6         5         3         1         8         6         5         3         1         8         6         5         3         1         1         1         1         12         10         8         6         5         3         1         2         24         22         20         18         16         14         12         10         9         7         5         4           40         37         35         33         31         29         27         25         23         21         19         18         16         14         12         10         9         7         6         4           41         38         30         34         32         30         28         26         24         22         21         19         17         15         14         12         11         9	95	-	0.5	0.5	-	70	1,5	7,5	,,,	10	-				-				-
87         33         30         28         25         23         20         18         16         14         12         10         8         6         5         3         1           38         34         39         29         27         24         22         20         18         10         14         12         10         8         6         5         3         2           39         36         33         31         28         26         24         22         20         18         16         14         12         10         9         7         5         4           40         37         35         32         30         28         26         24         22         19         18         16         14         12         10         9         7         6         4           41         38         34         31         29         27         25         23         21         19         17         15         14         12         11         9         7         42         40         38         36         34         32         30         28         26         24		1	1	1							l				1	,	ĺ		
38       34       32       29       27       24       22       20       18       10       14       12       10       8       6       5       3       2         39       36       33       31       28       26       24       22       19       18       16       14       12       10       9       7       5       4         40       37       35       32       30       28       26       24       22       19       18       16       14       12       10       9       7       6       41       38       36       34       31       29       27       25       23       21       19       18       16       14       12       10       9       7       6         43       41       39       36       34       32       30       28       26       24       22       21       19       17       15       14       12       11       9         445       43       41       39       37       35       33       31       29       27       25       23       22       20       18       17       15		l	i	1	1	1	1			1	1	1				1	,		
39       36       33       31       28       26       24       22       20       18       16       14       12       10       9       7       5       4         40       37       35       32       30       28       26       24       22       19       18       16       14       12       10       9       7       6         41       38       36       34       31       29       27       25       23       21       19       18       16       14       12       10       9       7       6         43       41       39       36       34       32       30       28       26       24       22       21       19       17       15       14       12       11       9         43       41       39       36       34       32       30       28       26       24       22       20       18       17       15       14       12       11         46       43       41       39       37       35       33       31       29       27       25       23       22       20       18       17 <td></td> <td>1</td> <td>i</td> <td>ł</td> <td></td> <td>1</td> <td>1 1</td> <td></td> <td>ĺ</td> <td></td> <td>•</td> <td></td> <td>1</td> <td></td> <td></td> <td>ı</td> <td>i</td> <td>2</td> <td>١,</td>		1	i	ł		1	1 1		ĺ		•		1			ı	i	2	١,
40 37 35 32 30 28 26 24 22 19 18 16 14 12 10 8 7 6 4 1 38 30 34 31 29 27 25 23 21 19 18 16 14 12 10 9 7 4 2 40 37 35 33 31 29 27 25 23 21 19 17 15 14 12 11 9 4 3 41 39 36 34 32 30 28 26 24 22 21 19 17 15 14 12 11 12 11 44 42 40 38 36 34 32 30 28 26 24 22 20 18 17 15 14 12 11 44 42 40 38 36 34 32 30 28 26 25 23 21 20 18 17 15 14 12 11 44 42 45 45 43 41 39 37 35 33 31 29 27 25 23 22 20 18 17 15 14 12 11 44 46 44 42 40 38 36 34 32 30 28 26 25 23 21 20 18 17 15 14 42 46 44 42 40 38 36 34 32 30 28 26 25 23 21 20 18 17 15 14 49 47 45 43 41 39 37 35 33 31 29 28 26 25 23 21 20 18 17 15 14 49 47 45 43 41 39 37 35 33 31 29 28 26 24 22 20 18 17 15 16 49 47 45 43 41 39 37 35 33 31 29 27 25 24 22 20 19 18 17 15 16 49 47 45 43 41 39 37 35 33 32 30 28 27 25 24 22 20 19 18 51 49 47 45 43 41 39 37 35 33 31 30 28 26 26 26 26 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28			1	1			1						12				1		2
41 38 36 34 31 29 27 25 23 21 19 16 16 14 12 10 9 7  42 40 37 35 33 31 29 27 25 23 21 19 17 15 14 12 11 9  43 41 39 36 34 32 30 28 26 24 22 21 19 17 15 14 12 11  44 42 40 38 36 34 32 30 28 26 24 22 20 18 17 15 14 12  45 43 41 39 37 35 33 31 29 27 25 23 22 20 18 17 15 14 12  46 44 42 40 38 36 34 32 30 28 26 26 24 22 20 18 17 15 14 12  47 45 43 41 39 37 35 33 31 29 27 25 23 22 20 18 17 15 14  48 46 44 42 40 38 36 34 32 30 28 26 25 23 21 20 18 17 15  47 45 43 41 39 37 35 33 31 29 28 26 25 23 21 20 18 17 15  48 46 44 42 40 38 36 34 32 30 28 26 25 23 21 20 18 17 16  47 45 43 41 39 37 35 33 31 29 28 26 24 22 21 19 18  49 47 45 43 41 39 37 35 33 31 29 28 26 24 22 21 19 18  40 47 45 43 41 39 37 35 33 31 29 28 26 24 22 21 19 18  50 48 46 44 42 40 38 36 34 32 30 28 27 25 24 22 20 19  50 48 46 44 42 40 38 36 34 32 31 29 27 25 24 22 20 19  50 48 46 44 42 40 38 36 35 33 31 30 28 27 25 24 22 20 19  50 48 46 44 42 40 38 36 36 35 33 31 30 28 27 25 24 22 20 20  50 48 46 44 42 40 38 36 36 35 33 31 30 28 27 25 24 22 20 20  50 50 48 46 44 42 40 39 37 35 33 31 30 28 27 26 24 23  51 51 49 47 45 43 41 40 38 36 34 32 31 29 28 26 24 23  52 50 48 46 44 42 40 39 37 35 33 31 30 28 27 26 24  52 50 48 46 44 42 40 39 37 35 33 32 30 29 27 26 24 23  53 51 49 47 45 43 41 40 38 36 36 34 33 31 30 28 27 26  54 52 50 48 46 44 42 40 39 37 35 34 32 31 29 28 27 26  55 63 51 49 47 45 43 41 40 38 36 36 36 33 32 30 29 27 26 24  56 53 52 49 48 46 44 42 40 39 37 35 34 32 31 29 28 27 26  56 53 52 49 48 46 44 42 41 39 38 36 36 36 33 32 30 29 28 28  57 54 52 50 48 47 45 43 41 40 38 38 36 36 33 32 30 29 28 28  57 54 52 50 48 46 44 42 40 39 37 35 34 32 31 30 29 28 27  56 55 53 51 49 48 46 44 42 41 39 38 36 36 33 32 30 29 28 28  57 54 52 50 48 48 46 44 42 40 39 37 35 34 33 31 30 29 28 28		l										_							
42 40 37 35 33 31 29 27 25 23 21 19 17 15 14 12 11 9 43 41 39 36 34 32 30 28 26 24 22 21 19 17 15 14 12 11 12 11 44 42 40 38 36 34 32 30 28 26 24 22 20 18 17 16 14 12 11 44 43 44 42 40 38 36 34 32 30 28 26 24 22 20 18 17 16 14 12 11 14 44 45 46 44 42 40 38 36 34 32 30 28 26 25 23 21 20 18 17 16 14 12 17 15 47 45 43 41 39 37 35 33 31 29 28 26 25 23 21 20 18 17 16 17 16 47 45 43 41 39 37 35 33 31 29 28 26 25 23 21 20 18 17 16 17 48 46 44 42 40 38 36 34 32 31 29 27 25 24 22 21 19 18 49 47 45 43 41 39 37 35 33 32 30 28 27 25 24 22 21 19 18 49 47 45 43 41 39 37 35 33 32 30 28 27 25 24 22 21 19 18 17 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16	40	37	35	32	30	28	26	24	22	19	18	16	14	12	10	9	7	в	4
43 41 39 36 34 32 30 28 26 24 22 21 19 17 15 14 12 11  44 43 40 38 36 34 32 30 28 26 24 22 20 18 17 15 14 12  45 43 41 39 37 35 33 31 29 27 25 23 22 20 18 17 15 14 12  46 44 42 40 38 36 34 32 30 28 26 25 23 21 20 18 17 15  47 45 43 41 39 37 35 33 31 29 28 26 25 23 21 20 18 17 15  48 46 44 42 40 38 36 34 32 31 29 28 26 24 23 21 20 18 17  48 46 44 42 40 38 36 34 32 31 29 27 25 24 22 21 19 18  49 47 45 43 41 39 37 35 33 31 29 28 26 24 23 21 20 18 17  50 48 46 44 42 40 38 36 34 32 31 29 27 25 24 22 21 19 18  50 48 46 44 42 40 38 36 34 32 31 29 27 25 24 22 20 19  50 48 46 44 42 40 38 36 34 32 31 29 28 26 26 24 23 22  51 50 48 46 44 42 40 39 37 35 33 31 30 28 27 25 24 22 20 19  50 48 46 44 42 40 39 37 35 33 31 30 28 27 26 24 23 22  51 50 48 46 44 42 40 39 37 35 33 32 30 29 27 26 24 23  52 50 50 48 46 44 42 40 39 37 35 33 31 30 28 27 28 24 23  53 51 49 47 45 43 41 40 38 36 34 33 31 30 28 27 28 24  54 52 50 48 46 44 42 40 39 37 35 34 33 31 30 28 27 28 24  55 53 51 49 47 45 43 41 40 38 36 36 34 33 31 30 28 27 28 24  56 53 52 49 48 46 44 42 40 39 37 35 34 32 31 29 28 27 28  57 54 52 50 48 47 45 43 41 30 38 36 36 35 33 32 30 29 28 28  57 54 52 50 48 47 45 43 42 40 39 37 35 34 32 31 29 28 27  58 55 53 51 49 47 45 43 41 40 38 37 35 34 32 31 30 29 28  57 54 52 50 48 47 45 43 42 40 39 37 35 34 32 31 30 29 28  57 54 52 50 48 47 45 43 42 40 39 37 36 34 33 31 30 29 28  57 54 52 50 48 47 45 43 42 40 39 37 36 34 33 31 30 29 28  58 55 53 51 49 47 46 44 42 41 39 38 36 36 35 33 32 30 29 28	41	38	36	34	31	29	27	25	23	21	19	18	16	14	12	10	9	7	
44       43       40       38       36       34       32       30       28       26       24       22       20       18       17       15       14       12         45       43       41       39       37       35       33       31       29       27       25       23       22       20       18       17       15       14         46       44       42       40       38       36       34       32       30       28       26       25       23       21       20       18       17       15       14         48       46       44       42       40       38       36       34       32       31       29       28       26       24       23       21       20       18       17         48       46       44       42       40       38       36       34       32       31       29       27       25       24       22       21       19       18         50       48       46       44       42       40       38       36       35       33       31       30       28       26       25	42	40	37	35	33	31	29	27	25	23	21	19	17	15	14	12	11	8	
46       43       41       39       37       36       33       31       29       27       25       23       22       20       18       17       15       14         46       44       42       40       38       36       34       32       30       28       26       25       23       21       20       18       17       15         47       45       43       41       39       37       35       33       31       29       28       26       24       23       21       20       18       17       15         48       46       44       42       40       38       36       34       32       31       29       27       25       24       22       21       19       18         50       48       46       44       42       40       38       36       34       32       31       30       28       26       24       22       20       19         50       48       46       44       42       40       38       36       34       32       31       30       28       26       25       23	43	41	39	36	34	32	30	28	26	24	22	21	19	17	15	11	12	11	٤
45       43       41       39       37       35       33       31       29       27       25       23       22       20       18       17       16       14         46       44       42       40       38       36       34       32       30       28       26       25       23       21       20       18       17       15         47       45       43       41       39       37       35       33       31       29       28       26       24       23       21       20       18       17       15         48       46       44       42       40       38       36       34       32       31       29       27       25       24       22       21       19       18         49       47       45       43       41       39       37       35       33       31       30       28       26       25       23       22       21       19       18         50       48       46       44       42       40       38       36       34       32       31       29       28       26       25	41	42	40	38	36	31	32	30	28	26	24	22	20	18	17	15	14	12	11
46       44       42       40       38       36       34       32       30       28       28       25       23       21       20       18       17       15         47       45       43       41       39       37       35       33       31       29       28       26       24       23       21       20       18       17       15         48       46       44       42       40       38       36       34       32       31       29       27       25       24       22       21       19       18         50       48       46       44       42       40       38       36       35       33       31       30       28       26       25       24       22       20       19         50       48       46       44       42       40       38       36       34       32       31       29       28       26       25       23       22       21         51       49       47       45       43       41       50       38       36       34       32       31       29       28       26		<u>-</u> ·																	
47       45       43       41       39       37       35       33       31       29       28       26       24       23       21       20       18       17         48       46       44       42       40       38       36       34       32       31       29       27       25       24       22       21       19       18         50       49       46       44       42       40       38       36       35       33       31       30       28       26       26       25       23       22       21         50       48       46       44       42       40       38       36       34       32       31       30       28       26       26       25       23       22       21         51       49       47       45       43       41       30       38       36       34       32       31       29       28       26       24       23       22       21         52       50       48       46       44       42       40       39       37       35       33       32       30       29		43	41	39	37	35	33	31		27	25	23	22	20	18	17	1	14	13
48       46       44       42       40       38       36       34       32       31       29       27       25       24       22       21       19       18         49       47       45       43       41       39       37       35       33       32       30       28       26       25       24       22       20       19         50       48       46       44       42       40       38       30       35       33       31       30       28       26       25       23       22       21         51       49       47       45       43       41       30       38       36       34       32       31       29       28       26       24       23       22         52       50       48       46       44       42       40       39       37       35       33       32       30       29       27       26       24       23         53       51       49       47       45       43       41       40       38       36       34       33       31       30       28       27       26																			14
49       47       45       43       41       39       37       35       33       32       30       28       27       25       24       22       20       19         50       48       46       44       42       40       38       36       35       33       31       30       28       26       25       23       22       21         51       49       47       45       43       41       30       38       36       34       32       31       29       28       26       24       23       22         52       50       48       46       44       42       40       39       37       35       33       32       30       29       27       26       24       23       22         53       51       49       47       45       43       41       40       38       36       34       33       31       30       28       27       26       24         54       52       50       48       46       44       42       40       39       37       35       34       32       31       29       28	- 1																		15
50     48     46     44     42     40     38     36     35     33     31     30     28     26     25     23     22     21       51     49     47     45     43     41     30     38     36     34     32     31     29     28     26     24     23     22       52     50     48     46     44     42     40     39     37     35     33     32     30     29     27     28     24     23       53     51     49     47     45     43     41     40     38     36     34     33     31     30     28     27     28     24       54     52     50     48     46     44     42     40     39     37     35     34     32     31     29     28     27     26       55     53     51     49     47     45     43     41     40     38     37     35     34     32     31     29     28     27     26       56     53     51     49     47     45     43     41     39     38     36     35     33<					1				- 1			1			1		1		17
61     49     47     45     43     41     30     38     36     34     32     31     29     28     26     24     23     22       52     50     48     46     44     42     40     39     37     35     33     32     30     29     27     28     24     23       53     51     49     47     45     43     41     40     38     36     34     33     31     30     28     27     26     24       54     52     50     48     46     44     42     40     39     37     35     34     32     31     29     28     27     26       55     53     51     49     47     45     43     41     40     38     37     35     34     32     31     29     28     27     26       56     53     52     49     48     46     44     42     41     39     38     36     35     33     32     30     29     28       57     54     52     50     48     47     45     43     42     40     39     37     36<	49	47	45	43	41	39	37	35	33	32	30	28	27	25	24	22	20	19	18
52     50     48     46     44     42     40     39     37     35     33     32     30     29     27     26     24     23       53     51     49     47     45     43     41     40     39     36     34     33     31     30     28     27     26     24       54     52     50     48     46     44     42     40     39     37     35     34     32     31     29     28     27     26       55     53     51     49     47     45     43     41     40     38     37     35     34     32     31     29     28     27       56     53     52     49     48     46     44     42     41     39     38     36     35     33     32     30     29     28       57     54     52     50     48     47     45     43     42     40     39     37     36     34     33     31     30     29       58     55     53     51     49     47     45     43     42     40     39     37     36     34<	50	48	46	44	42	40	38	36	35	33	31	30	28	26	25	23	22	21	19
53     51     49     47     45     43     41     40     38     36     34     33     31     30     28     27     28     24       54     52     50     48     46     44     42     40     39     37     35     34     32     31     29     28     27     26       55     53     51     49     47     45     43     41     40     38     37     35     34     32     31     29     28     27       56     53     52     49     48     46     44     42     41     39     38     36     35     33     32     30     29     28       57     54     52     50     48     47     45     43     42     40     39     37     36     34     33     31     30     29       58     55     53     51     49     47     46     44     43     42     40     39     37     35     34     32     31     30     29	51	1	47	45	43	41	39	38	36	34	32	31	29	28	26	24	23	22	21
54     62     50     48     46     44     42     40     39     37     35     34     32     31     29     28     27     28       55     53     51     49     47     45     43     41     40     38     37     35     34     32     31     29     28     27       56     53     52     49     48     46     44     42     41     39     38     36     35     33     32     30     29     28       57     54     52     50     48     47     45     43     42     40     39     37     36     34     33     31     30     29       58     55     53     51     49     47     '46     44     43     42     40     38     37     35     34     32     31     30     29	52	50	48	46	44	42	40	39	37	35	33	32	30	29	27	26	24	23	22
56     53     51     49     47     46     43     41     40     38     37     36     34     32     31     29     28     27       56     53     52     49     48     46     44     42     41     39     38     36     35     33     32     30     29     28       57     54     52     50     48     47     45     43     43     40     39     37     36     34     33     31     30     29       58     55     53     51     49     47     46     44     43     42     40     38     37     35     34     32     31     30	53	51	149	47	45	43	41	40	38	36	34	33	31	30	28	27	26	24	23
56     53     52     49     48     46     44     42     41     39     38     36     35     33     32     30     29     28       57     54     52     50     48     47     45     43     43     40     39     37     36     34     33     31     30     29       58     55     53     51     49     47     46     44     43     42     40     38     37     35     34     32     31     30	54	52	50	48	46	44	42	40	39	37	35	34	32	31	29	28	27	26	24
56     53     52     49     48     46     44     42     41     39     38     36     35     33     32     30     29     28       57     54     52     50     48     47     45     43     42     40     39     37     36     34     33     31     30     29       58     55     53     51     49     47     46     44     43     42     40     38     37     35     34     32     31     30						45	49	47	40					-	-				
57         54         52         50         48         47         45         43         42         40         39         37         36         34         33         31         30         29           58         55         53         51         49         47         46         44         43         42         40         38         37         35         34         32         31         30	1		1											1				1	25 26-
58 55 53 51 49 47 46 44 43 42 40 38 37 35 34 32 31 30	•						- 1						1		1			1	20-
	1	1	- 1		- 1			1					1		- 1	- 1			28
- KU   KK   KA   KY   AD   AR   AR   AR   AR   AY   AY   AY   XU   XR   XR   XR   XR   XY   XY   XY	59	56	54	52	49	48	46	45	43	42	41	39	38	36	35	33	32	31	29

TABLE V,

Wet						V	LUES	or t-t	' IN D	g Rres	, FARI	RENIEI	T.					
bulb t'.	18	18.5	19	19.5	20	20.2	21	21.5	22	22.5	23	23.2	21	21.5	25	25.5	26	26.5
30																		
31																		
32																		
33																		
34																		
		—		i			_											
35																		
36			}															
37	İ							1										
38																		
39	1																	
40	3	1								_								
41	4	3	2	1														
42	6	5	4	2	1							ļ						
43	8	7	5	4	3	1	1			l								
41	10	8	7	6	5	3	2	1									1	
				1				.						_				_
45	11	10	9	7	6	5	4	3	2	1								
46	13	11	10	9	8	7	5	4	3	1	1	ľ						
47	11	13	12	10	9	8	7	6	5	4	3	2	1					
48	15	14	13	12	10	9	8	7	6	5	4	4	3	2	1	1	Ì	
40	17	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	1	
	-						.	-		_		-		-		l	-	-
50	18	17	15	14	13	12	11	10	9	8	7	6	5	5	4	3	2	1
51	19	18	17	16	15	13	12	11	10	10	9	8	7	6	5	4	3	3
52	21	19	18	17	16	15	14	13	12	11	10	9	8	7	6	6	5	4
53	22	20	19	18	17	16	15	14	13	12	11	10	9	9	8	7	6	5
54	23	22	20	19	18	17	16	15	11	13	12	11	11	10	9	8	7	6
55	24	23	22	20	19	18	17	16	15	14	13	13	12	11	10	9	8	8
56	25	21	23	22	21	20	19	18	17	16	15	14	13	12	11	10	10	9
57	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	11	10
58	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	12	11
59	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	13	12

TABLE V,

						V.	LUES	OF <i>t</i> -1	' in d	RGREES	, FAR	RENHE	T.					
Wet bulb t'.	0	0.2	1	1.2	2	2.5	3	3:5	4	4.2	5	5.5	6	6.5	7	7.5	8	8.5
60	100	97	94	91	89	86	83	80	78	76	73	71	68	66	64	62	60	58
61	100	97	91	92	89	86	81	81	78	76	73	71	69	67	65	63	61	59
62	100	97	91	92	89	86	81	81	79	76	71	72	70	67	65	63	61	59
63	100	. 97	95	92	89	87	81	81	79	77	71	72	70	68	66	61	62	60
64	100	97	95	92	89	87	81	82	79	77	75	73	70	68	66	61	62	60
				<u> </u>												<u> </u>		
65	100	97	95	92	89	87	85	82	80	77	75	73	71	69	67	65	63	61
66	100	97	95	92	90	87	85	82	80	78	76	73	71	69	67	65	63	61
67	100	97	95	92	90	87	85	83	80	78	76	71	72	70	68	66	61	62
68	100	97	95	92	90	88	85	83	81	78	76	74	72	70	68	66	64	62
69	100	97	95	92	90	88	85	83	81	79	76	71	72	71	69	67	65	63
				<b>-</b>								L						1
70	100	97	95	93	90	88	86	83	81	79	77	75	73	71	69	67	65	63
71	100	98	95	93	90	88	86	81	81	79	77	75	73	71	70	68	66	61
72	100	98	95	93	90	88	86	81	82	79	77	75	74	72	70	68	66	64
73	100	98	95	93	90	88	86	84	82	80	78	76	7-1	72	70	68	67	65
71	100	98	95	93	91	88	86	81	82	80	78	76	71	72	71	69	67	65
		-																
75	100	98	95	93	91	89	86	84	82	80	78	76	71	73	71	69	67	65
76	100	98	95	93	91	89	87	85	82	80	78	77	75	73	71	.69	68	66
77	100	98	95	93	91	89	87	85	83	81	79	77	75	73	72	70	68	66
78	100	98	95	93	91	89	87	85	83	81	79	77	75	74	72	70	68	67
79	100	98	96	93	91	89	87	85	83	81	79	77	76	71	72	70	69	67
80	100	98	96	93	91	89	87	85	83	81	79	78	76	75	72	71	69	68
81	100	98	96	ค3	91	89	87	85	83	81	80	78	76	71	73	71	. 69	68
82	100	98	96	91	91	89	87	85	81	82	. 80	78	76	75	73	71	70	68
83	100	98	96	94	91	89	88	86	84	82	80	78	77	75	73	72	70	69
84	100	98	96	94	92	, 90	88	86	84	82	80	79	77	75	71	72	70	69
												-						
85	100	98	96	91	92	90	88	86	81	82	81	79	77	76	71	72	71	69
86	100	98	96	91	92	90	88	86	84	82	81	79	77	76	74	73	71	70
87	100	98	96	94	92	90	88	86	84	83	81	79	78 -	76	71	73	71	70
88	100	98	96	91	92	90	88	86	85	83	81	79	78	76	75	73	72	70
89	100	98	96	91	92	90	88	86	85	83	81	80	78	77	75	73	72	71

TABLE V,

Wet						V.	LUES	0F <i>t</i> — <i>t</i>	' IN D	EGRKES	, FAH	RNHBI	T.					
bulb t'.	9	9.5	10	10.2	11	11.2	12	12.2	13	13.5	14	14.5	15	15.2	16	16.5	17	17
. 60	56	51	53	51	40	47	46	44	43	41	40	38	37	35	34	33	31	30
61	57	55	53	52	50	48	46	45	43	42	40	39	38	36	35	34	32	31
62	57	56	54	52	51	49	47	45	44	43	41	40	38	37	36	34	33	32
63	58	56	55	53	51	50	48	46	45	41	42	41	39	38	37	35	34	33
64	58	57	55	54	52	50	49	47	46	41	43	41	40	38	37	36	35	34
65	59	57	56	54	53	51	49	48	46	45	43	42	41	40	38	37	36	35
66	60	58	56	55	53	52	50	48	47	46	44	43	42	40	39	38	36	35
67	60	59	57	55	54	52	51	49	48	46	45	41	42	41	40	39	37	36
68	61	59	58	56	54	53	51	50	48	47	45	44	43	41	40	39	38	77
69	61	60	58	57	55	53	52	50	49	47	46	45	41	42	41	40	30	38
70	61	60	58	57	56	54	52	51	49	48	47	45	44	43	42	40	39	38
71	62	60	59	58	56	55	53	52	50	40	47	46	45	44	42	41	40	38
72	62	61	60	58	57	55	54	52	51	49	48	47	45	41	43	42	41	38
73	63	61	60	59	57	56	54	53	51	50	49	47	46	45	41	43	41	40
74	63	62	60	59	58	56	55	53	52	50	49	48	47	45	41	43	42	41
	_																	-
75	61	62	61	59	58	57	55	54	52	51	50	48	47	46	45	41	43	42
76	61	63	61	60	58	57	56	54	53	51	50	49	48	46	45	44	43	42
77	65	63	62	60	59	57	56	55	53	52	51	49	48	47	46	45	44	43
78	65	61	62	61	59	58	56	55	54	52	51	50	49	48	47	45	41	43
79	66	64	63	61	60	58	57	56	54	53	52	50	49	48	47	46	45	44
80	66	65	63	62	60	59	57	56	85	53	52	51	50	4.9	47	46	45	41
81	66	65	63	62	61	59	58	57	55	54	53	51	50	49	48	47	46	46
82	67	65	64	62	61	60	58	57	56	54	53	52	51	50	48	47	46	45
83	67	66	61	63	61	60	59	57	56	55	54	52	51	50	49	48	47	46
84	67	66	64	63	62	60	<b>59</b>	58	56	55	54	53	52	51	49	48	47	46
85	68	66	65	63	62	61	59	58	57	55	54	53	52	51	50	49	48	47
86	68	67	65	64	62	61	60	59	57	56	55	54	52	51	50	49	48	47
87	68	<b>67</b>	65	64	63	61	60	59	58	56	55	54	53	52	51	50	49	42
88	69	67	68	64	63	62	60	59	58	57	56	54	58	52	51	50	49	48
89	69	68	66	65	63	62	61	60	58	57	56	55	54	53	52	50	49	48

TABLE V,

		-			*****	v.	ALURS	OF 1-1	' IN D	EGREES	, Ган	RENHE	T.	-		<del></del>		
Wet bulb t'.	18	18.2	19	19.5	20	20.5	21	21.2	22	22.5	23	23.2	24	24.5	25	25.5	26	26.2
60	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	15	14	13
61	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	16	15	14
62	31	30	29	28	26	26 26	25 28	24 25	23	22	21	20	19	18	17	17	16	15
63	32	31	30 30	28 29	27 28	26 27	26 26	25 25	23 24	23 23	22	21	20	19	18	18	17	16 17
64	33	32	30	29	28	*2/	20	س	2-1	20	23	22	21	20	19	18	18	17
65	33	32	31	80	29	28	27	26	25	24	23	23	22	21	20	19	19	18
66	34	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20	19	19
67	35	34	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20	20
68	36	35	34	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20
69	36	35	34	33	32	31	30	29	28	27	27	26	25	24	23	23	22	21
70	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	23	23	22
71	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	23	22
72	38	37	36	35	34	33	32	32	31	30	29	28	27	26	26	25	24	23
73	39	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	25	24
74	40	39	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	24
			ļ					l									l	
75	40	39	38	37	36	35	34	33	33	32	31	30	29	28	28	27	26	25
76	41	40	39	38	37	36	35	34	33	32	31	31	30	29	28	27	27	26
77	42	41	40	39	38	37	36	35	34	33	32	31	30	30	29	28	27	26
78	42	41	40	39	38	37	36	35	34	34	33	32	31	30	30	29	28	27
79	43	42	41	40	39	38	37	36	35	34	33	32	32	31	30	29	29	28
			l														l	
60	40	40	4.	40	39	38	38	37	36	92	04		90	90	91	90	29	28
80 81	44	42	41	40	40	39	38	37	36	35 35	34	33 34	32 33	32	31	30	30	28
82	44	43	42	41	40	39	39	38	37	36	35	34	33	33	32	31	30	29
83	45	44	43	42	41	40	39	38	37	37	36	35	34	33	32	31	31	30
84	45	44	43	42	41	40	40	39	38	37	36	35	35	34	33	32	31	31
		,	Ī	,									-		-			
85	46	45	44	43	42	41	40	39	38	38	37	36	35	34	33	33	32	31 32
86	46	45	44	43	42	41	41	40	39	38	37	36	36	35 35	34	33 34	33	32
87 88	47	46	45	44	43	42	42	41	39 40	39	38	37	36	36	35	34	34	33
88	47	46	43	45	44	43	42	41	40	40	39	38	37	36	35	35	34	33
89	9/	90	<b>"</b> ,	30	72	960	"	31	300	**·	98	90	01	30	30	30	03	,

TABLE V,

Wet	=					<del></del>	Valu	s of t	-t' in	DEGRI	ers, Fa	LIBENI	IEIT.		<del></del> -			
bulb #.	27	27.5	28	28.5	29	29.5	30	30.5	31	31.2	32	32.5	33	33.2	31	34.5	35	35.2
55	7	6	6	5	5	4	3	3	2	2	1	1		Ì	İ			i
56	8	7	7	6	6	5	4	4	3	3	2	2	1	1				
57	9	8	8	7	7	6	5	5	4	4	3	3	2	2	1	1		
58	10	9	. 9	8	8	7	6	6	5	5	4	. 4	3	3	2	2	1	1
<b>5</b> 9	11	10	10	9	9	8	7	7	6	6	5	5	4	4	3	3	2	2
60	12	11	11	10	9	9	8	8	7	7	6	6	5	5	4	4	3	3
61	13	12	12	11	10	10	9	9	8	8	7	7	6	6	5	5	4	4
62	14	13	13	12	11	11	10	10	9	9	8	8	7	7	6	6	5	5
63	15	14	14	13	12	12	11	10	10	9	9	8	8	8	7	7	6	6
64	16	15	15	14	13	13	12	11	11	10	10	9	9	8	8	7	7	6
65	17	16	16	15	14	11	13	12	12	11	11	10	10	9	9	8	8	7
66	18	17	17	16	15	15	14	13	13	12	12	11	11	10	10	9	9	8
67	19	18	17	17	16	15	15	14	14	13	13	12	11	11	10	10	10	9
68	20	19	18	18	17	16	16	15	15	11	13	13	12	12	11	11	10	10
69	31	20	19	18	18	17	16	16	15	15	14	14	13	13	12	12	11	11
70	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	13	12	12
71	22	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	13	12
72	23	22	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	13
73	23	23	22	21	21	20	19	19	18	18	17	17	16	16	15	15	14	14
74	21	23	23	22	21	21	20	19	19	.18	18	17	17	16	16	15	15	11
75	21	24	23	23	22	21	21	20	19	19	18	18	17	17	16	16	15	15
76	25	21	24	23	23	22	21	21	20	20	19	19	18	18	17	17	16	16
77	26	25	25	21	23	23	22	21	21	20	20	19	19	18	18	17	17	16
78	26	26	25	25	21	23	23	22	21	21	20	20	19	19	18	18	17	17
79	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19	19	18	18
80	28	27	26	26	25	25	21	23	23	22	22	21	21	20	20	19	19	18
81	28	28	27	26	26	25	25	21	23	23	22	22	21	21	20	20	19	19
82	29	28	28	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19
83 84	29 30	29 29	28 29	27 28	27 27	26 27	26 26	25 26	24 25	21 21	23 24	23 23	22 23	22 22	21 · 22	21 21	20 21	20
85	30	30	29	28	28	27	27	26	25	25	24	24	23	23	22	22	21	21

TABLE V,

Wot								GREES, F						
oulb t'.	36	36.2	37	37.5	38	38.2	39	39.5	40	40.2	41	41.2	42	42.5
55			1							. 1				
56		1	Ì		1	1				-				
57									,					
58						ļ			·					
59	1	1									•			
60	2	2	1	1	1									
61	3	3	2	2	2	1	1						ļ	
62	4	4.	3	3	3	2	2	1	1	1				
63	5	5	4	4	3	3	8	2	2	2	1	1	1	
61	6	5	5	5	4	4	4	3	3	3	2	2	2	1
65	7	6	6	6	5	5	5	4	4	3	3	3	2	2
66	8	7	7	6	6	6	5	5	5	4	4	4	3	3
67	9	8	8	7	7	7	6	6	5	5	5	4	. 4	4
68	9	9	9	8	8	7	7	6	6	6	5	5	5	4
69	10	10	9	9	8	8	8	7	7	6	6	R	5	ŧ
70	11	11	10	10	9	9	8	8	8	7	7	6	6	6
71	12	11	11	10	10	10	9	9	8	8	7	7	7	6
72	12	12	11	11	11	10	10	9	9	9	8	8	8	;
73	13	13	12	12	11	11	10	10	10	9	9	8	8	
74	14	13	13	12	12	12	11	11	10	10	9	9	9	8
76	14	14	. 13	13	13	12	12	11	11	11	10	10	10	6
76	15	15	14	14	13	13	12	12	12	11	11	10	10	10
77	16	15	15	14	14	13	13	13	12	12	11	11	11	10
78	16	16	15	15	15	14	14	13	13	12	12	12	11	11
79	17	17	16	16	15	15	14	14	13	13	13	12	12	12
80	18	17	17	16	16	15	15	14	14	14	13	13	13	12
81	18	18	17	• 17	16	16	15	15	15	14	14	13	13	13
82	19	18	18	17	17	16	16	16	15	15	14	14	14	13
83 81	19 20	19 19	18 19	18 18	17	17 17	17 17	16 17	16 16	15 16	15 15	14	14 15	1
	-							-	-					-
85	20	20	19	19	18	18	18	17	17	16	16	15	15	1

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°.

Wet						VALUES	or <i>t</i> —	'IN DE	GRES,	FAHREN	HEIT.				
bulb t'.	0	0.2	1	1.2	2	2.5	3	3.2	4	4.2	5	5.2	6	6.5	7
23	123	117	112	.106	.101	.092	*090	180	.079	1073	.068	*062	-057	*051	.010
24	128	.123	117	112	106	•101	.095	.090	.084	.079	.073	.068	.062	•057	*051
25	134	128	123	117	112	.106	101	-095	.090	*085	-079	.074	.068	.063	.057
26	140	134	129	123	•118	·112	.107	·101	1096	.690	·085	.080	.074	•069	•063
27	146	141	135	130	124	119	·113	.108	102	.097	'091	.086	.080	.075	-089
28	153	147	142	136	131	125	120	114	•109	108	*098	092	-087	-081	-076
29	·159	154	148	143	137	132	126	-121	115	·110	104	.099	.003	.088	•082
30	167	161	155	150	144	139	133	128	122	117	•111	106	100	·095	.089
31	174	168	.163	157	152	146	141	135	·130	124	.119	·113	108	102	1097
32	182	175	.169	163	•157	151	145	.139	133	127	121	115	109	.103	.097
33	189	183	177	171	165	159	152	146	140	.134	128	-122	.116	·110	101
36	196	190	184	178	172	166	160	154	148	142	135	129	123	117	111
35	201	198	192	186	180	174	168	162	155	149	143	137	131	125	119
36	213	*206	200	194	188	182	176	170	161	157	151	145	139	.133	'127
37	221	215	209	203	197	190	184	178	172	166	•160	154	148	141	135
38	230	221	218	211	205	.199	·193	187	181	175	168	162	156	150	114
39	239	233	·227 ·236	220	214	208	202	·196 ·205	190	184	·177	171	·165	159	153
40	258	252	246	230	233	216	211	215	209	203	196	190	175	·168	·162 ·172
42	268	-262	256	250	243	237	231	225	219	213	206	200	194	188	182
_										Ì				200	
													i		
43	278	•272	266	260	254	248	241	235	229	*223	217	211	204	•198	192
44	289	.283	.277	270	264	258	*252	216	240	234	-227	'221	215	209	203
45	300	294	*288	*282	276	270	263	257	251	245	239	233	226	220	214
46	312	306	299	293	287	·281 ·293	·275	·268 ·250	262	·256	250	244	238	231	*225
47	324	-317	911	200	290	293	280	280	.274	208	202	256	240	.243	237
							-								
48	.336	.330	-323	317	·311	.305	299	293	286	280	274	268	·262	255	*249
49	·349	342	.336	.330	324	.318	.311	*305	.299	.293	287	280	274	268	*262
50	- 362	·356	*349	343	337	331	325	319	.312	.306	.300	294	'288	•282	•276
51	375	.369	.363	357	.351	344	-338	*332	.326	.320	*314	307	.301	295	*289
52	.389	.383	.377	.371	.365	*358	*352	348	'340	*334	*328	'321	'315	.309	-303

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry 'and wet bulb 't thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°-(continued).

Wet					•	v	ALURS	or t-	t' in d	EGREE	B, FAH	BENHE	T.					
bulb t'.	7.5	8	8.2	9	9.5	10	10.2	<b>1</b> 1	11.2	12	12.5	13	13.5	14	14.5	15	15.2	10
23	.040	.035	.030	024	.019	'013	.008	.002							1			-
24	.046	.040	-035	.029	.024	1018	.013	.008	.002			1		1		1	1	
25	.052	.046	.041	*035	-030	024	-019	.013	.008	.002					1	1		
26	'058	052	.047	.041	.036	-030	.025	-019	*014	.008	1003	1		l		1	l	
27	'064	*058	.053	.047	·042	.038*	•031	-025	.020	014	-009	.003						
28	.070	.065	.059	*054	-048	.043	-037	032	.028	*021	*015	.010	.004					
29	070	071	.008	1080	'055	*040	'044	-038	.033	1027	010	.016	011	.005				
30	.084	.078	.073	'067	'062	.056	*051	*045	*040	.034	.029	023	.018	'012	1007			
31	091	.086	.080	.075	.069	*064	1058	*053	*047	.042	.036	*031	.025	.020	'014	.000	.003	
32	'091	1085	.079	1073	.066	.060	•054	.048	•042	•036	•030	024	.018	.013	.008			
																		-
83	.098	.092	.086	.080	'074	.068	.062	.056	049	.043	.037	.031	.025	.019	013	'007		
34	105	.099	.093	•087	.080	074	.068	'062	*056	*050	044	*038	.032	.026	.019	.012	007	
35	113	107	100	094	·088	.082	·076	·071	064	*058	*052	*046 *053	.039	.033	'027	.021	'015	.00
36	121	115	109	102	105	.099	092	.086	.080	.066	.060	*062	'047 '056	'041 '050	035	·029	·023	.01
37	129	123	117	111	100	089				·074		002		050	043	-037		.02
38	·138	·132	·126	·119	·113	107	·101	.095	.089	.083	-077	•070	*064	*058	*052	·046	.040	.03
39	117	111	135	.128	122	.116	·110	104	-098	092	'085	.079	.073	'067	.061	'055	049	.01
40	156	150	144	•138	132	125	119	·113	.107	101	.095	.089	.082	•076	-070	*064	·058	*05
41	.166	160-	153	147	141	135	129	123	117	110	104	.098	.092	*086	.080	.074	-067	•06
42	176	170	163	·157	151	145	.139	·133	127	120	114	108	·102	.096	.080	.083	.077	.07
													-					
43	186	180	174	167	·161	155	149	143	137	131	124	118	112	.106	.100	.091	-087	.081
44	196	190	184	178	.172	166	.160	•153	147	141	135	129	123	117	110	104	·098	.092
45	208	202	·196	·189	183	177	171	165	.159	152	146	140	·134	128	122	115	109	103
46	219	213	207	201	194	188	182	176	·170	164	157	•151	145	139	·133	127	·120	•114
47	•231	•225	218	·212	206	200	·194	·188	·181	175	.169	163	157	·151	144	138	·132	120
48	243	237	231	*225	218	212	206	200	194	-187	181	175	169	163	157	150	144	136
49	256	250	243	237	231	212	219	200	208	200	194	188	181	175	169	163	157	15
50	269	263	257	251	245	239	232	226	220	214	208	202	196	189	183	177	171	16
51	283	203	271	264	258	252	246	240	234	227	203	215	209	203	197	190	184	178
52	297	291	284	278	272	266	260	254	247	241	235	229	223	217	210	204	198	192

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 277. inches and in the latitude of  $22^{\circ}$ —(continued).

Wet							Valu	RS OF	<i>t—t'</i> 11	DEGE	ers, J	FAHRE	(HEIT.				*******	
bulb t.'	16.2	17	17.5	18	18.2	19	19.5	20	20.2		21.2	22	22.5	23	23.5	24	24.5	25
23																		
25			1		Ì			1	1								1	
26									}									
27					ĺ						'							
28																		
29									1		}							
30			İ			1	1											
81																		
32												·						
33																		
34																		
35	.003								.									
36	·011	·005	-007															
37	019	013				10 7												
<b>3</b> 8	•028	•021	.015	.009	.003													
89	.036	.030	024	.018	.012	.006												
40	*046	.039	.033	027	.021	'015	.009	.003									l	
41	*055	1040	'043	037	*030	021	·018	·012	.008	·010	.004				Ì			
42	1065	-059	.053	.047	.040	'034	-028	022	-016	-010	7003							
48	.075	.069	.063	.057	.051	*044	-038	*032	.026	·020	.014	.007	·001					
44	.080	.080	.073	.067	.061	.055	.040	.043	.036	-030	.024	.018	.012	.008				
45	'097	.091	.082	.078	.072	.066	:060	*054	*048	'041	.035	.029	-023	.017	.011	1004		
46	.108	102	.098	.089	.083	.077	071	-065	.059	052	*046	'040	*034	.028	*022	*015	.009	.003
4/7	120	.113	107	.101	*095	.089	.083	*078	•070	*064	.058	.052	*045	.039	.033	*027	*021	*015
48	.132	*126	.119	.113	107	.101	-095	.088	.082	.076	-070	.064	.028	*051	045	.039	*082	-027
49	144	.138	132	126	120	.113	107	.101	.095	.089	'082	.076	.070	'064	.058	.081	•045	-039
50	.159	152	146	·140	134	128	.122	116	109	.103	.097	.091	*085	.079	-072	.086	-060	*G-4
51	172	166	160	153	147	141	135	129	123	116	110	104	'098	*092	.086	*079	.073	'067
52	.186	.180	173	167	.161	.155	149	148	136	130	124	118	.113	.108	.099	.093	*087	.081

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of  $22^{\circ}$ —(continued).

Wet						VALU	es of t	-t' in :	DEGREE	s, Fahr	en h bit				
alb t'.	0	0.2	1	1.2	2	2.5	3	3.2	4	4.2	5	5.2	6	6.2	7
53	.404	.398	·391	385	.379	.373	*367	<b>·36</b> 1	*354	*318	·342	.336	.330	.323	*317
54	419	413	406	·400	394	.388	*382	'375	.369	.363	·357	·351	*344	*338	.332
55	434	428	•422	416	409	·403	*397	.391	·385	'378	.372	.366	*360	*354	'346
56	450	444	438	432	425	419	413	.407	·401	·394	.388	.382	·376	.370	*36
57	·467	460	·454	448	442	· <b>43</b> 6	429	·423	· <b>4</b> 17	·411	405	.398	*392	.386	.380
58	484	.477	.471	•465	· <b>4</b> 59	.453	.446	•440	.434	.428	.422	.415	409	403	•39
59	501	495	489	483	476	470	464	458	451	445	439	433	427	420	414
60	.219	513	507	501	494	488	482	476	470	463	457	451	.445	439	433
61	.538	-532	525	.519	513	507	501	494	488	482	476	470	463	457	45
62	.557	·551	545	.538	.532	•526	-520	.513	•507	•501	495	488	482	476	.470
63	·577	.571	·565	·558	•552	·546	•540	•533	.527	.21	'515	•508	*502	· <b>49</b> 6	•40
64	.598	.291	·585	.579	.573	•566	-560	554	•548	.241	•535	•529	•523	'517	•51
65	.619	613	.606	.600	.594	•588	.281	•575	•569	•563	.226	•550	544	.238	•53
66	'641	· <b>6</b> 34	· <b>62</b> 8	·622	.616	.609	.603	.597	·591	*584	.578	.572	·566	•559	•55
67	.663	'657	·651	·644	.638	*632	·626	·619	·613	*607	.601	•594	.288	*582	<b>.</b> 57
68	*686	*680	.674	.667	*661	*655	-649	*642	.636	-630	624	·617	·611	·605	•59
69	.710	.704	•698	691	•685	·679	.673	•666	•660	*654	•647	'641	•635	-629	·62
70	.725	·729	.722	.716	.710	.703	-697	·691	*685	. 678	.672	-666	.660	.653	'64
71	·760	.754	748	.741	.735	•729	.723	.716	•710	.704	.697	· <b>691</b>	·685	·679	.67
72	·786	'780	.774	·767	.761	.755	. *749	·742	·736	•730	•724	717	711	•705	.69
73	'813	1907	.801	.794	·788	.782	.775	•769	•763	*757	•750	.744	.738	.731	.72
74	'841	835	*828	*822	.816	.810	*803	797	.791	.784	.778	'772	'765	.759	.75
75	*870	*863	*857	·851	*844	.838	*832	*825	*819	.813	*807	.800	'794	788	.78
76 <b>7</b> 7	*929	·893 ·923	*886 *917	·880 ·910	·874 ·904	*867 *898	*861 *891	·855 ·885	·849 ·879	·842 ·872	·836	·830 ·860	·823 ·853	·817 ·847	·8:
78	960	954	948	941	935	*929	*923	.916	910	904	.897	.891	*885	878	-8
79 80	1.026	1.019	1.013	1.007	1.000	*981 *994	*955 *988	·948 ·981	*942 *975	.836	·929 ·962	·923	*917 *950	·910 ·943	*9:
81	1.060	1.023	1.047	1.041	1.034	1.028	1.022	1.012	1.009	1.008	.996	.990	984	.977	.97
82	1.095	1.088	1.082	1.076	1.069	1.083	1.057	1.050	1.044	1.038	1.031	1.025	1.018	1.012	1.00

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

Wet						V.	LUES	or t—t	' in D	EGREES	, FAH	RENHE	T.					
bulb t'.	7.5	8	8.2	9	9.2	10	10.2	11	11.2	12	12.2	13	13.5	14	14.5	15	15.2	16
53	·311	905	299	293	.286	-280	27-1	268	262	256	249	•243	237	231	•225	219	212	206
54	-326	· <b>32</b> 0	·31 i	907	•301	295	•289	.283	.277	270	264	258	.252	246	210	233	.227	•221
55	-341	•335	.329	.323	.317	.310	304	298	292	286	280	.273	.267	-261	255	249	242	.536
<b>5</b> 6	.357	351	·345	.339	.332	•326	·320	314	.308	302	295	289	•283	277	271	264	258	.252
57	·37· <b>4</b>	·368	.361	*355	349	343	•337	.830	*324	.318	312	.306	•299	293	287	·281	-275	'268
58	391	384	378	372	·366	.360	*353	317	341	335	.329	322	·316	310	304	298	291	*285
59	408	.402	-396	.389	.383	.377	371	·365	.358	352	346	.340	.334	.327	.321	315	.300	302
60	126	120	114	-407	401	•395	.389	•383	.376	370	.364	.358	.352	*345	-339	:333	.327	.320
61	•445	438	•432	.126	· <b>4</b> 20	414	·407	401	•395	.389	382	376	•370	361	.358	.351	315	. ; :9
62	•463	457	·451	445	<b>·43</b> 8	•432	· <b>12</b> 6	•420	414	.107	·401	.395	*389	*382	376	·370	.361	•357
63	-483	-477	·471	•465	·458	•452	116	110	•433	-427	·421	415	•408	402	-396	-390	•383	-377
64	*501	108	492	485	479	473	•467	·460	454	118	412	-135	429	423	:417	411	404	*398
65	.525	.519	.513	•506	•500	.494	488	481	.475	469	463	.156	150	.111	438	431	425	119
66	-547	·541	*531	•528	•522	·516	•509	.503	•497	· <b>4</b> 91	484	•478	.472	•466	459	453	*417	441
67	•569	•563	·557	·551	.214	· <b>53</b> 8	·532	•526	·519	·513	•507	·500	494	·488	•482	475	469	.163
68	*592	•586	-580	-574	•507	*561	•555	-519	•542	•536	•530	-521	.517	'511	.505	-498	-402	-486
69	'616	610	601	597	•591	585	.579	.572	-566	-560	.553	547	.541	.535	.528	-522	516	510
70	'641	634	*628	.622	·616	.609	.603	.597	.201	581	.578	.572	.262	*559	.553	•547	•540	.231
71	.666	•660	653	-617	641	635	628	.622	.616	-610	603	-597	.591	581	578	-572	-566	.559
72	-692	1686	•680	673	·667	·661	654	-648	612	•636	629	623	•617	·610	604	.598	.592	.585
	719	·713	*706	*700	-694	-687	-681	-675	*669	-662	•656	-650	*643	•637		-625		·612
78 74	719	713	734	700	721	715	709	703	-696	-690	*684	677	671	.665	·631	652	·618	1640
75	747	740	762	756	750	744	767	703	725	718	.712	706	.400	-693	-687	681	674	.686
76 76	-801	709	702	785	.779	773	767	760	754	748	712	*735	*729	722	716	710	703	1697
77	.835	-828	.822	-816	.809	.803	797	790	.784	.778	.771	·765	.759	.752	748	740	784	*727
78	.866	-859	-883	-847	-840	*834	-828	.821	*815	-809	*802	.798	*790	.783	.777	771	765	'758
79	-898	*891	*885	*879	*872	.866	-860	.853	-847	*841	1834	*828	-822	.816	-809	-803	.797	.790
80	.031	924	.918	912	905	.899	.893	-886	-880	-874	*867	-861	*855	*848	-842	*836	*829.	85
81	965	958	.952	1946	-939	-933	1927	-920	.914	.008	·901	*895	.889	*882	-876	-869	.863	1857
82	.999	-993	987	-980	974	.968	-961	-955	940	9421	•936	-930	-923	-917	911	904	'898	.895

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry " and wet bulb " thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

	Wet						v	ALUES	0# t-	t'in d	EGREE	s, Fah	RENHE	IT.					
64         215         200         202         196         100         184         178         172         165         180         163         147         141         134         128         122         118           56         230         224         218         212         205         189         193         167         181         174         168         162         150         150         143         137         131           66         246         240         223         227         221         215         200         202         186         190         184         178         172         165         169         183         147         183         182         175         100         183         147         183         172         100         184         182         175         100         183         147         183         182         175         100         183         148         180         180         183         143         183         182         221         223         223         221         221         221         223         223         221         221         223         221         221         224	ulb t'.	16.2	17	17:5	18	18.2	19	19.2	20	20.5	21	21.2	22	22.2	23	23.5	24	24:5	25
56         230         224         218         312         205         169         193         1787         181         174         168         160         150         150         163         137         131           66         246         240         233         227         221         1215         200         202         160         180         184         178         172         165         169         163         147           67         262         256         250         244         237         231         225         219         213         206         200         194         183         182         175         109         163           69         284         290         284         277         271         265         250         223         227         240         223         222         216         200         193         186         180           60         314         308         302         296         283         277         271         265         280         282         221         210         223         227         221         215         220         220         220         220         <	53	200	194	188	182	175	.169	·163	.157	151	144	·138	·132	126	120	114	107	.101	.09
56         24.6         24.0         22.3         22.7         221         21.5         20.9         20.2         166         19.0         18.4         17.8         17.8         17.5         1.65         16.9         1.63         14.7           57         203         256         250         24.4         237         231         22.5         21.9         21.3         20.0         20.1         19.4         18.8         18.2         17.5         1.00         168           59         29.0         22.9         27.1         26.5         25.0         22.3         22.7         24.0         22.8         22.2         21.6         20.0         20.0         1.9         20.0         28.0         28.3         27.7         22.1         26.5         25.0         25.3         22.7         21.7         24.0         22.8         22.2         21.6         24.0         23.3         22.7         22.1         22.6         22.0         28.3         27.7         27.1         26.5         25.0         22.3         27.7         27.1         26.5         25.0         22.3         22.7         22.1         21.5         22.0         22.3         22.7         22.1         22.1 <t< td=""><td>54</td><td>.215</td><td>209</td><td>202</td><td>196</td><td>190</td><td>184</td><td>178</td><td>172</td><td>165</td><td>159</td><td>·153</td><td>147</td><td>141</td><td>134</td><td>128</td><td>122</td><td>·116</td><td>.11</td></t<>	54	.215	209	202	196	190	184	178	172	165	159	·153	147	141	134	128	122	·116	.11
67         202         256         250         244         237         231         225         219         213         206         200         104         188         183         175         109         163           58         279         273         207         260         254         248         242         236         229         223         217         211         205         188         193         166         160         160         314         308         302         226         280         283         277         271         225         252         226         227         221         215           61         3351         336         336         336         336         337         337         331         337         331         332         332	55	230	224	218	212	205	199	193	187	181	174	168	162	156	·150	143	137	131	.12
58         '279         '273         '297         '260         '264         '248         '242         '236         '229         '223         '217         '211         '205         '198         '193         '186         '180           69         '290         '290         '284         '273         '271         '265         '250         '253         '217         '221         '226         '222         '216         '200         '203         '197           60         '314         '308         '302         '283         '277         '271         '265         '253         '257         '271         '264         '268         '252         '240         '233         '227         '221         '215         '253         '277         '271         '264         '268         '252         '240         '230         '239         '233         '237         '361         '365         '383         '332         '331         '307         '361         '343         '307         '361         '345         '348         '342         '336         '329         '323         '317         '311         '304         '299         '292         '282         '276         '270         '284         '289	56	246	240	233	227	221	·215	209	202	196	190	184	178	·172	'165	159	153	147	14
69         290         290         294         273         271         266         259         259         257         240         234         223         223         221         220         223         227         221         226         226         229         229         229         228         227         271         265         252         240         233         227         221         215         61         333         326         320         314         306         302         2295         289         223         277         271         264         256         252         224         226         229         220         220         223         227         2271         264         266         252         246         223         227         221         213         260         238         232         314         307         301         286         329         323         317         311         304         233         327         321         315         308         302         220         220           65         313         307         301         384         342         333         337         303         387         303	57	-262	•256	•250	244	*237	·23î1	•225	219	213	206	200	194	188	182	175	·169	·163	.15
69         290         290         294         279         271         266         259         253         227         240         234         223         223         221         220         223         227         221         225         225         225         226         252         240         233         227         221         215         61         333         326         320         314         306         302         2295         2289         2283         277         271         264         256         252         246         223         227         221         215         61         333         326         332         334         302         2295         2283         277         271         264         256         252         244         226         226         226         226         224         226         227         227         227         227         227         227         227 </td <td></td> <td>•970</td> <td>-973</td> <td>-907</td> <td>260</td> <td>*254</td> <td>*249</td> <td>•942</td> <td>•996</td> <td>-229</td> <td>•223</td> <td>217</td> <td>'211</td> <td>*205</td> <td>198</td> <td>192</td> <td>186</td> <td>180</td> <td>.17</td>		•970	-973	-907	260	*254	*249	•942	•996	-229	•223	217	'211	*205	198	192	186	180	.17
60													228	-222	-				19
61								- 1					216						20
62 351 345 339 332 326 329 314 307 301 285 289 282 270 270 204 257 251  63 371 365 358 359 362 344 340 333 327 321 315 308 302 296 290 283 277 271  64 382 386 379 373 307 361 354 349 342 336 329 333 317 311 304 298 292  65 413 407 400 304 388 383 375 300 363 357 360 363 357 360 344 388 322 326 329 323 317 311 304 298 292  66 434 428 422 410 409 403 397 391 384 378 372 360 360 360 360 360 360 360 360 360 360						1						.271	264	258	252	246	•239	-	.22
64         392         386         379         373         367         361         354         349         342         336         329         323         317         311         304         298         292           65         413         407         400         394         388         382         376         369         363         357         350         344         338         332         325         310         313           60         431         428         422         416         409         403         397         391         384         378         372         366         359         353         347         341         334           60         457         450         444         438         432         425         419         413         407         400         384         388         382         375         309         383         387           60         450         457         440         442         438         430         423         417         411         405         433         416         440         440           70         528         522         516         509         50					- 1	- 1						•	282	.276	.270	264	257	251	.21
64         392         386         379         373         367         361         354         349         342         336         329         323         317         311         304         298         292           65         413         407         400         394         388         382         376         369         363         357         350         344         338         332         325         310         313           60         431         428         422         416         409         403         397         391         384         378         372         366         359         353         347         341         334           60         457         450         444         438         432         425         419         413         407         400         384         388         382         375         309         383         387           60         450         457         440         442         438         430         423         417         411         405         433         416         440         440           70         528         522         516         509         50																			
65																			'26
66					.,			7											•28
67 '457 '450 '414 '438 '432 '425 '419 '413 '407 '400 '394 '388 '382 '375 '369 '363 '357  68 '480 '473 '467 '461 '455 '148 '442 '436 '439 '453 '447 '441 '434 '428 '422 '416 '409 '403  70 '528 '522 '515 '509 '503 '496 '400 '494 '478 '471 '405 '459 '453 '447 '441 '434 '428 '427 '446 '440 '434 '427  71 '553 '547 '540 '534 '528 '522 '515 '509 '503 '496 '400 '494 '478 '471 '405 '459 '453 '447 '441 '478 '471 '465 '459 '453 '446 '440 '434 '427  72 '579 '573 '500 '560 '564 '549 '511 '535 '529 '522 '516 '510 '501 '497 '491 '495 '478  73 '606 '599 '593 '587 '581 '574 '568 '562 '555 '549 '513 '536 '530 '524 '518 '511 '505 '478  74 '633 '627 '621 '614 '608 '602 '595 '589 '583 '577 '570 '564 '558 '551 '545 '539 '533 '75 '662 '655 '649 '643 '638 '630 '624 '618 '611 '605 '599 '592 '586 '580 '573 '567 '561 '76 '691 '685 '672 '666 '659 '683 '687 '681 '681 '681 '681 '681 '688 '682 '621 '615 '609 '603 '598 '590 '77 '721 '715 '708 '702 '696 '689 '683 '677 '670 '664 '658 '651 '645 '639 '633 '626 '620 '77 '721 '715 '708 '702 '696 '689 '683 '677 '670 '664 '658 '651 '645 '639 '633 '626 '620 '77 '721 '715 '708 '702 '696 '689 '683 '677 '670 '664 '658 '651 '645 '639 '633 '626 '620 '77 '721 '715 '708 '702 '696 '689 '683 '677 '670 '664 '658 '651 '645 '639 '633 '626 '620 '77 '721 '715 '708 '702 '696 '689 '683 '677 '670 '664 '658 '651 '645 '639 '633 '626 '620 '77 '721 '715 '708 '702 '696 '699 '683 '677 '700 '684 '658 '651 '645 '639 '633 '626 '620 '77 '784 '778 '771 '765 '759 '752 '740 '740 '733 '727 '721 '714 '708 '702 '696 '689 '683 '680 '817 '910 '804 '798 '791 '785 '779 '772 '766 '760 '763 '747 '741 '774 '774 '774 '774 '774 '774						•													.30
68						1								1		,,,,		1	*32
60	67	457	-450	-414	438	432	-425	.419	'413	-407	-400	-394	300	382	375	-309	303	357	30
70         ·528         ·522         ·515         ·509         ·503         ·496         ·400         ·494         ·478         ·471         ·405         ·463         ·446         ·440         ·434         ·427         ·405         ·463         ·446         ·440         ·434         ·427         ·400         ·484         ·471         ·465         ·440         ·434         ·427         ·400         ·484         ·471         ·465         ·459         ·453         ·478         ·471         ·465         ·459         ·453         ·478         ·471         ·465         ·459         ·453         ·478         ·471         ·465         ·459         ·453         ·478         ·471         ·465         ·459         ·453         ·478         ·471         ·465         ·459         ·478         ·471         ·465         ·471         ·465         ·459         ·453         ·4478         ·471         ·465         ·471         ·465         ·471         ·465         ·471         ·465         ·465         ·440         ·471         ·465         ·471         ·465         ·471         ·465         ·440         ·440         ·440         ·440         ·440         ·440         ·440         ·440	68	480	473	·467	461	·455	148	442	·436	.430	·423	-417	·111	-405	*398	392	.386	.380	-37
71	60	'503	.497	491	185	<b>'478</b>	.472	*466	459	•453	.447	441	'434	428	422	416	.409	403	-36
73	70	•528	.522	·515	·50 <del>9</del>	.203	·496	400	484	.478	471	465	459	153	116	440	434	427	-4
73	71	•553	•547	.540	·534	'528	.522	·515	•509	•503	497	·490	484	•478	471	•465	•459	453	4
74	72	.579	·573	-566	•560	554	·548	511	· <b>5</b> 35	-529	*522	·516	•510	·501	·497	· <b>4</b> 91	·485	478	•4
74         '633         '627         '621         '614         '608         '602         '595         '589         '583         '577         '570         '564         '558         '551         '545         '539         '533           75         '662         '655         '649         '643         '636         '630         '624         '618         '611         '605         '599         '592         '580         '580         '573         '567         '561           76         '991         '685         '679         '672         '666         '659         '653         '647         '640         '634         '621         '615         '609         '690         '590           77         '721         '715         '708         '702         '686         '689         '683         '677         '670         '664         '658         '651         '645         '639         '633         '626         '620           78         '752         '746         '789         '783         '727         '720         '714         '708         '701         '685         '689         '682         '676         '676         '670         '683         '657         '681	73	-808	-500	•593	-587	·581	*574	·568	-562	*555	'549	.243	.536	.530	-521	*518	.211	.505	-10
75	• •					1				1	1	1	*564	1	1	1	1		.6
76	•			1	1	•636		}		·611	-605	-599	-592	.586	.280	.573	-567	.561	.5
77	•					-666		ł	ł	-640	-634	1628	·621	-615	.609	-603	.596	.590	.5
78	77		.715	•708	•702	·696	-689	.683	.677	-670	-664	-658	-651	-645	.639	-633	-626	.620	-в
79							,,,,,,,		- PAGE	.703	·por	-000	•gon	יפיים.	-670	.000	·per	.021	.6
80 817 810 804 798 791 785 779 772 766 760 783 747 741 734 728 722 715 81 850 844 838 831 825 819 812 806 800 793 787 781 774 768 762 755 749	7.	1	1	1						1								1	.6
81 850 844 838 831 825 819 812 806 800 793 787 781 774 768 762 755 749						,		1									1.00	1	1.7
	•		1				1			1			1	1	l	1			7
82   1885   1879   1873   1866   1860   1854   1847   1841   1835   1828   1822   1816   1809   1803   1796   1790   1784					.831					. 1835	1828	*822	.816	809	1803	762	788	784	.7

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of  $22^{\circ}$ —(continued).

Wet					***************************************	-	VAL	JES OF	t—t' 1	N DEGI	rers, l	AHREI	HBIT.					
bulb #.	25.2	26	26.5	27	27.5	28	28.5	29	29.5	30	30.2	31	31.2	32	32.5	33	33.2	34
48	020	.014	.008	.003			Ī	1	Î		[	i I	1	Ì	Î	Ī	[	T
40	.033	.027	.051	'014	.008	.002			ļ									
50	.048	042	.035	.029	.023	017	.011	.002			l	1			1			
51	*061	.055	.049	.013	.036	.030	021	.018	012	-008				ł	1	1	1	
52	.075	.069	-062	*056	.050	-044	.038	.033	025	-019	013	.007						
53	-089	.083	.077	.070	.064	.058	.052	046	.010	.033	.027	.021	.012	.009	.003			
54	104	.097	.091	.082	.079	.073	.087	.080	.054	.048	.015	.036	*029	.023	'017	.011	.005	
55	.119	113	.108	100	-094	.088	.082	075	.089	.063	*057	.021	045	.038	.032	.028	020	•01
56	134	128	122	'116	110	.103	1097	.091	.085	.079	.072	.066	.080	.054	.048	.042	.035	.02
57	.151	144	·138	.132	126	120	113	107	.101	.095	.089	.083	.076	-070	-064	.058	.052	.04
58	·167	'161	.155	140	143	136	.130	124	118	111	•105	.099	.093	*087	.080	074	'068	'08:
59	185	178	172	166	160	154	147	141	135	129	-122	-116	110	104	.098	.091	.085	.071
. 60	.202	196	.190	184	178	.171	165	159	.153	116	110	134	128	122	.115	.109	103	-09
61	.221	215	208	202	.196	190	.183	.177	171	165	159	152	116	140	134	'127	121	.11
62	.239	•232	-226	•220	214	.207	.201	.192	189	182	176	.170	164	.157	151	145	.139	13
63	.258	252	246	240	'233	-227	221	-214	208	202	196	.190	.183	177	171	165	158	155
64	280	.273	267	.261	255	248	212	236	230	.223	·217	.211	205	198	.192	.186	180	-174
65	.300	291	•288	.282	.275	•269	.263	257	•250	244	238	.232	.225	219	-213	.207	200	194
66	*322	.316	•309	.303	297	291	284	278	.272	266	'259	.253	247	241	'235	228	.222	•216
67	*344	'338	·332	·325	.319	·313	·307	.300	294	.288	-282	.275	269	263	257	250	244	238
68	367	361	354	-318	.342	-336	.329	.323	·317	311	304	-298	292	286	279	273	267	•261
69	.391	384	378	.372	-366	•359	·353	347	·340	334	328	322	'315	.309	.303	-297	290	•284
70	415	409	402	398	.390	.381	·377	·371	365	358	352	346	340	.333	327	·321	·315	*308
71	440	434	427	·421	415	409	402	.396	•390	384	377	371	.365	.358	352	316	.340	.333
72	466	460	453	447	441	434	·428	422	416	409	403	397	.390	·384	·378	·372	.362	-359
73	492	·486	480	474	467	·461	455	448	412	436	430	•423	·417	411	.404	.398	*392	.386
74	·520	·514	.207	.201	495	488	482	476	470	463	457	451	414	438	432	426	· <b>4</b> 19	413
75	548	.542	·536	.529	.233	.517	.210	·504	408	491	485	479	473	466	·460	454	447	441
76	.577	'571	·565	-558	.552	·546	.239	.233	.527	·521	.514	-508	.502	495	189	483	476	470
77	-607	·601	.282	.288	·582	·576	·569	.263	.557	·550	-544	· <b>53</b> 8	·532	·525	.219	·513	.208	<b>•500</b>
78	· <b>63</b> 8	632	626	·619	613	.807	.600	.591	·588	.281	·575	-569	.562	.556	·550	.543	.537	·531
79	670	·664	·657	651	645	.638	632	626	619	.613	607	-600	-594	·588	·581	.575	.269	•563
80	703	-696	-690	188	-677	671	685	-658	652	-646	.639	-633	-627	620	614	.608	·601	·595
81	·736	730	724	717	711	705	-698	·692	·686	679	.673	·667	.660	654	1648	·641	·635	•629
82	.771	765	758	752	746	.739	733	.727	720	714	708	.701	·695	.689	682	.676	:670	.663

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(concluded).

						VAL	UES OF	t-t' 1	N DEG	REES,	FAHRE	HBIT.					
Wet bulb t'.	34.2	35	35.2	36	36.2	37	37.5	38)	38.2	39	39.5	40	40.5	411	41.2	42	42
53																	
54																	
55	.007																
56	.023	'017	.011	1004													
57	.039	.033	-027	.021	·014	.008	.002										
58	.058	.049	•043	.037	.031	*025	*018	.012	*006								
59	.073	.067	.060	.054	·048	.042	.036	029	.023	*017	·011	*005					
60	.091	084	-078	.072	*066	.080	.053	.047	·041	•035	.028	.022	.016	·010	.004		
61	109	.103	-096	•090	084	.078	.072	*065	.059	.053	047	<b>.04</b> 0	·03·4	.028	022	.016	.00
62	126	120	114	·107	•101	•095	•089	.082	·076	•070	'064	•057	'051	·0 <b>4</b> 5	.039	'032	*02
	-		133	-127	·121		'108	102	.098	.090	•083	.077	•071	*085	-058	.052	-04
63	146	·140 ·161	155	149	142	·115	108	102	117	·111	105	.009	.092	.086	.080	074	.06
64 es	188	182	176	169	163	157	150	144	138	132	126	.119	'113	107	101	094	.08
65 66	210	203	170	191	185	178	172	.166	160	153	147	141	135	128	122	116	.11
67	232	225	.219	213	207	200	194	188	182	·175	·169	.163	157	150	144	138	.13
68	254	248	.242	.236	.229	•223	-217	211	204	198	192	185	179	173	167	·160	.12
69	278	.272	•265	.259	*253	246	240	234	228	.221	215	209	203	196	190	184	.17
70	.302	•296	•290	.283	.277	.271	264	.258	.252	246	.239	.233	•227	.221	.214	208	•20
71	-327	•321	*314	.308	.302	296	-289	283	-277	.271	264	.258	252	245	239	.233	.22
72	.353	.346	-340	*334	*328	·321	·315	.309	.303	*296	290	284	277	271	•265	.259	*25
73	*379	-373	-367	·360	*354	-348	*342	*335	•329	*323	•316	-310	304	297	291	.285	.2
74	-407	400	394	.388	-381	.375	-369	.363	*356	.359	*344	.337	.331	325	-318	.312	.30
75	435	428	.422	416	419	403	-397	.391	*384	.378	.372	.365	.359	'353	*847	*340	.3
76	464	457	.451	445	-439	432	•426	-420	· <b>4</b> 13	-407	·401	.394	-388	-382	.375	-369	.3
77	-404	487	481	'475	·468	•462	•456	*440	·443	*437	·430	*424	•418	-412	-405	-399	.3
78	-524	-518	-512	*505	*409	•493	-486	*480	.474	*468	-461	*465	-440	-442	-436	·430	-4
78 79	556	-550	-544	-537	-531	525	-518	-512	-508	499	493	487	480	474	468	461	.4
99 80	-589	-582	-576	-570	.563	-557	-551	*544	.238	-532	525	-519	513	508	-500	. 494	.4
81	-622	-616	.610	-603	-597	-591	-584	.578	-572	.565	-559	-553	-546	-540	.534	-527	.5
82	-657	-851	-644	-638	-632	-625	-619	613	.608	.600	-593	-587	.581	-574	-568	-562	.5

TABLE VII,

Wet					VA1	UES OF	t—t' 1:	A DEGE.	ers, Fa	HRENHE	IT.				
bulb t'.	0.	0.2	1	1.2	2	2.2	3	3.2	4	4.2	5	5.2	6	6.2	1
23	100	94	. 88	81	75	69	64	59	54	40	44	40	36	32	2
24	100	94	88	82	76	70	65	60	55	50	46	41	37	33	1
25	100	94	88	82	77	71	66	61	57	52	47	43	39	35	8
26	100	91	88	83	77	72	67	63	58	53	49	45	41	37	8
27	100	91	88	83	78	73	68	63	59	55	50	46	42	39	8
29	100	94	69	83	78	74	69	61	60	56	52	48	44	41	8
29	100	94	89	84	79	74	70	65	61	57	53	49	46	42	8
30	100	95	89	84	79	75	71	66	62	58	54	51	47	44	4
31	100	95	90	85	80	76	72	67	63	59	55	52	49	45	4
32	100	95	90	85	80	78	71	67	63	59	55	51	47	41	4
33	100	95	90	85	80	76	72	69	63	60	56	52	49	45	4
31	100	95	90	86	81	77	72	68	64	60	57	53	50	46	4
35	100	95	90	86	81	77	73	69	65	61	58	54	51	47	4
36	100	95	91	86	82	78	74	70	66	62	59	55	52	48	4
27	100	95	91	87	82	78	74	71	67	63	60	56	53	50	4
38	100	96	91	87	83	79	75	72	68	64	60	57	54	51	4
39	100	96	91	87	83	79	75	72	68	65	61	58	55	52	4
40	100	96	92	88	84	80	76	73	69	66	62	59	56	53	5
41	100	96	92	88	84	80	77	73	70	66	63	60	57	54	5
42	100	96	92	88	84	81	77	74	70	67	64	61	58	55	5
43	100	96	92	88	85	81	77	74	71	68	65	62	59	56	5
44	109	96	92	89	85	81	78	75	71	68	65	62	60	57	5
45	100	96	92	89	85	. 82	78	75	72	60	66	63	60	58	5
46	100	96	92	89	85	82	79	76	78	70	67	64	61	58	5
47	100	96	93	89	86	82	79	76	73	70 -	67	65	62	59	5
48	100	96	93	89	86	83	80	77	74	71	68	65	63	60	5
49	100	96	93	90	86	83	80	77	74	71	68	66	63	61	5
50	100	97	93	90	87	83	80	77	75	72	69	66	64	61	51
51	100	97	93	90	87	84	81	78	75	72	70	67	64	62	6
52	100	97	93	90	87	84	81	78	76	73	70	68	65	63	6

TABLE VII,

Wet							Valu	ES OF	<i>t—t'</i> in	Degn	ers, F	AHREN	HEIT.					
bulb #.	75	8	8.2	9	0.2	10	10.5	11	11.2	12	12.2	13	13.2	14	14.2	15	15.2	16
23	24	20	16	13	10	7	4	1										
24	26	22	19	15	12	9	7	4	1	İ								
25	28	24	21	18	15	12	9	6	3	1	1							
26	30	27	23	20	17	14	11	9	6	8	1							
27	32	28	25	22	19	16	14	11	8	6	. 3	1						
28	84	31	27	24	21	19	16	13	11	8	6	4	1		- 1			
29	35	32	29	26	23	21	18	15	13	11	8	6	4	2	ĺ			
30	37	34	31	28	25	23	20	17	15	13	11	8	6	4	2			
31	39	36	33	30	27	25	22	20	17	15	13	11	9	7	5	3	1	
32	37	34	31	28	25	22	19	17	14	12	10	8	6	4				
																		ш_
33	38	35	32	29	26	24	21	19	16	14	12	10	8	6	4	2		
34	40	37	34	81	29	26	24	21	18	16	14	12	10	8	6	4	2	
35	41	38	35	33	80	27	25	23	20	18	16	14	12	10	8	6	4	2
36	43	40	37	34	32	29	27	24	22	20	18	16	14	12	10	8	6	4
37	44	42	39	36	33	31	28	26	24	22	20	18	16	13	12	10	8	6
38	45	42	40	37	35	32	30	28	25	23	21	19	17	15	13	11	10	8
39	46	44	41	39	36	33	31	29	27	24	23	21	19	17	15	13	11	10
40	47	45	42	40	87	35	33	31	28	26	24	22	20	18	17	15	13	11
41	48	46	44	41	39	36	34	33	30	28	26	24	23	20	18	16	15	13
42	49	47	45	42	40	37	35	33	31	29	27	25	23	21	19	18	16	15
43	50	48	46	43	41	38	36	34	32	30	28	26	24	23	21	19	18	16
44	51	49	47	44	42	40	38	35	33	31	30	28	26	24	22	21	19	is
45	52	50	48	45	43	41	39	37	35	33	31	29	27	25	24	22	21	19
46	53	51	49	46	41	42	40	38	36	34	32	30	28	27	25	24	22	21
47	54	52	50	47	45	43	41	39	37	35	33	31	30	28	27	25	21	22
48	55	53	51	48	46	44	43	40	38	36	34	33	31	29	29	26	25	23
49	56	54	51	49	47	45	43	41	39	37	35	34	32	80	29	27	26	24
50	57	54	52	50	48	46	44	42	40	88	36	35	33	32	80	29	27	26
51	57	55	53	51	49	47	45	48	41	89	87	36	34	33	31	80	28	27
52	58	56	54	51	50	48	46	44	42	40	38	87	35	34	32	31	29	28

Wet bulb t'.		Ar-	1			******	VA	LUBS O	₽ <i>t</i> —t'	in De	Grbes,	FARE	ENHEL	r,				
puto r.	16.5	17	17.5	18	18.5	19	19.5	20	20-5	21	21.2	22	22 5	23	23.5	24	24.5	25
23																		
24																		
25					ĺ													
26 27											,			1				
28																		
29																		
30																		
31													İ					
32																		
											<u> </u>							
33 34																		
35	1																	
36	3	1																
37	5	8	1															
38	7	5	8	2														
39	8	7	5	4	2	1												
40	10	9	7	6	4	3	2	1										
41	12	10	9	7	6	5	3	2	1									
42	13	12	10	9	8	6	5	4	3	2	1							
43	15	13	12	11	9	8	7	6	4	3	2	1						
44	16	15 16	13 15	12 14	11 12	9 11	8 10	7 9	6 8	5 7	4 5	8 4	2 3	1 2	1	1		
45 46	18 19	18	16	15	14	12	11	10	9	8	7	8	5	4	3	2	1	
47	21	19	18	16	15	14	13	11	10	9	8	7	6	5	4	4	8	2
														0				
48	22	20	19	18	17	15	14	13	12	11	10	9	8	7	6	5	4	3
49	23	22	20	19	18	17	15	14	13	12	11	10	9	8	7	6	5	5
50	24	23	22	20	19	18	17	16	14	13	12	11	10	9	8	7	7	6
51	26	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7
52	27	25	24	28	21	20	19	18	17	16	15	14	13	12	11	10	9	9

TABLE VII,

Wet bulb #.			-		VA	LUES OI	<i>t-t'</i> 1	n Dege	ees, F	AHRENH	EIT.				
vet bulb f.	0	0.5	1	1.2	2	2.5	3	8.2	4	4:5	5	5.5	6	6:5	7
53	100	97	93	90	87	84	81	79	76	73	71	68	66	64	61
54	100	97	94	91	88	85	82	79	76	74	71	69	66	64	62
55	100	97	94	91	88	85	82	79	77	74	72	69	67	65	62
56	100	97	94	91	88	85	82	80	77	75	72	70	67	65	63
57	100	97	94	91	- 88	85	83.	80	78.	75	73	70	68	. 66	64
58	100	97	94	91	88	86	83	80	78	76	73	71	68	66	64
59	100	97	94	91	89	86	83.	81	78	76	73	71	69.	67	65
60	100	97	94	91	89	86	83	81	79	76	74	72	69	67	65
61	100	97	94	92	89	86	84	81	79	77	74	72	70	68	66
62	100	97	94	92	89	86	81	81	79	77	75	73	71	68	66
63	100	97	94	92	89	87	84	82	79	77	75	73	71	69	67
64	100	97	95	92	89	87	84	82	80	78	75	73	71	69	67
65	100	97	95	92	90	87	85	82	80	78	76	74	71	69	68
66	100	97	95	92	90	87	85.	83	80	78	76	74	71	70	68
67	100	97	95	92	90	87	85	83	81	79	76	74 -	72 `	70	68
68	100	97	95	92	90	88	85	83	81	79	77	75	73	71	69
69	100	97	95	93	90	88	86	83	81	79	77	75	73	71	69
70	100	97	95	93	90	88	86	84		- 1		75	73	71	70
71	100	97	95	93	90	88	86	84	82	80	78	76	74	72	70
72	100	98	95	93	90	88	86	84	82	80	78	76	74	72	70
73	100	98	95	93	91	88	86	81	82	80	78	76	74	72	71
74	100	98	95	93	91	89	86	84	82	80	78	76	75	73	71
75	100	98	95	93	91	89	87	85	83	81	79	77	75	73	71
76	110	98	95	93	91	89	87	85	83	81	79	77	75	73	72
77	100	98	95	93	91	89	87	85	83	81	79	77	75	74	72
78	100	98	95	93	91	89	87	85	83	81	79	78	76	74	7:
79	100	98	96	93	91	89	87	85	83	81	80	78	76	74	78
80	100	98	96	94	91	89	87	85	83	82	80	78	76	75	78
81	100	98	96	94	91	89	87	86	84	82	80	78	77	75	73
82	100	98	96	94	. 92	90	88	86	84	82	80	79	77	75	7

TABLE VII,

Wet						V	LUES	or t-t	' IN D	EGREE:	s, Fah	RENHE	IT.					
bulb t'.	7:5	8	8.2	9	9.2	10	10.2	11	11.2	12	12.2	13	13.2	14	14.5	15	15.2	16
53	59	57	55	52	50	49	47	45	43	41	39	38	36	35	33	32	30	29
54	59	57	55	53	51	40	47	46	41	42	40	39	37	36	34	33	32	30
55	60	58	56	54	52	50	48	46	45	43	41	40	38	37	35	34	32	31
56	61	59	57	<b>5</b> 5	53	51	40	47	46	44	42	41	39	38	36	35	33	32
57	61	59	57	55	54	52	50	48	46	45	43,	41	40	38	37	36	34	33
58	62	60	58	56	54	52	51	49	47	45	41	42	41	39	38	37	35	34
59	63	61	59	57	55	53	51	50	18	46	45	43	42	40	39	37	36	35
60	63	61	59	57	55	51	52	50	40	47	45	44	43	41	39	38	37	36
61	61	62	60	58	56	54	53	51	49	48	46	45	43	42	40	39	39	36
62	64	62	60	58	56	55	53	52	50	48	17	45	-1-1	42	41	40	38	37
											_							
63	65	63	61	59	57	56	51	52	50	19	48	46	44	43	42	41	39	38
64	65	63	61	60	58	56	54	52	51	50	48	47	45	44	13	41	40	39
65	66	64	62	60	58	57	55	53	52	50	40	47	46	45	44	42	41	39
66	66	64	62	61	59	57	55	53	52	51	49	48	47	45	41	43	41	40
67	67	65	63	61	59	58	56	55	53	52	50	49	47	46	45	43	42	41
			_					). <u> </u>		ļ								
68	67	65	63	62	60	58	56	55	51	52	51	49	48	47	45	41	43	42
69	69	66	61	62	60	59	57	56	51	53	51	50	40	47	46	45	41	42
70	68	66	64	63	61	59	58	56	55	53	52	50	49	48	47	45	-41	43
71	65	66	65	63	61	60	58	57	55	54	52	51	50	48	47	46	45	43
72	69	67	65	63	62	60	59	57	56	5-1	53	52	50	49	48	46	4	41
73	69	67	66	64	62	61	59	58	56	55	53	52	51	49	48	47	46	45
73 74	69	68	66	64	63	61	60	58	57	55	51	53	52	50	49	47	46	45
75	70	68	67	65	63	62	60	59	57	56	54	53	52	51	40	48	47	46
76	70	68	67	65	64	62	61	59	58	56	55	51	53	51	50	40	47	46
77	70	69	67	65	64	62	61	60	58	57	55	54	53	52	50	49	48	47
-			-				<u> -</u>						-			-	-	_
78	71	69	68	66	64	63	61	60	58	57	56	55	54	52	51	50	49	47
79	71	69	68	66	65	63	62	60	59	58	56	55	54	53	51	50	49	48
80	71	70	68	66	65	64	62	61	59	58	57	55	54	53	52	51	50	48
81	72	70	69	67	65	64	63	61	60	58	57	56	55	53	52	51	50	49
82	72	70	69	67	66	64	63	62	60	59	57	56	55	54	53	52	51	49

TABLE VII,

Wet						1	ALUES	or t-	t' in l	PGREI	s, FA	HRENE	RIT.					
bulb t'.	16.2	17	17.5	18	18.2	19	19.5	20	20.2	21	21.5	22	22.2	23	23.2	24	24.5	25
53	28	26	25	24	23	21	20	19	18	17	16	15	14	13	12	11	11	10
54	29	27	26	25	24	22	21	20	19	18	17	16	15	14	13	13	12	11
55	30	28	27	26	25	24	22	21	20	19	18	17	16	15	14	14	13	12
56	31	29	28	27	26	25	23	22	21	20	19	18	17	17	16	15	14	13
57	32	30	29	28	27	23	24	23	22	21	20	19	18	18	17	16	15	14
58	33	31	30	29	28	27	25	24	23	22	21	20	19	19	18	17	16	15
59	33	32	31	30	29	28	26	25	21	23	22	21	20	20	19	18	17	16
60	34	33	32	31	29	28	27	26	25	24	23	22	21	21	20	19	18	17
61	35	34	33	32	30	29	28	27	26	25	21	23	22	21	21	20	19	18
62	36	35	34	32	31	30	29	28	27	26	25	24	23	22	22	21	20	19
					_										_			
63	37	36	34	33	32	31	30	29	28	27	26	25	24	23	22	22	21	20
61	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	22	21
65	38	37	36	35	34	33	31	30	30	29	28	27	26	25	24	23	22	22
66	39	38	37	35	31	33	32	31	30	29	28	27	26	26	25	24	23	22
67	40	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	21	23
																	-	-
68	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24
69	41	40	39	38	37	36	35	33	33	32	31	30	29	28	27	26	26	`25
70	42	40	39	38	37	36	35	31	33	32	31	30	29	29	28	27	26	25
71	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	28	27	26
72	43	42	41	39	38	37	37	36	35	34	33	32	31	30	29	28	28	27
						-	_		-				-	-	-		-	-
73	41	42	41	40	39	38	37	36	35	34	31	33	32	31	30	29	28	27
71	41	43	42	41	40	39	38	37	36	35	34	33	32	31	31	30	29	28
75	45	44	43	41	40	39	38	38	36	35	35	84	33	32	31	30	29	29
76	45	44	43	42	41	40	39	38	37	36	35	31	34	33	32	31	30	29
77	46	45	41	43	42	40	40	39	38	37	36	35	34	33	32	32	31	30
78	46	45	41	43	42	41	40	39	38	37	36	35	35	34	33	32	31	81
79	47	46	45	44	43	42	41	40	39	38	37	36	35	84	34	33	32	31
80	47	46	45	44	43	42	41	40	39	38	37	37	36	35	34	33	33	32
81	48	47	46	45	44	. 43	42	41	40	39	38	37	36	35	35	34	. 33	32
82	48	47	46	45	44	43	42	41	40	39	39	38	37	36	35	34	31	33

TABLE VII,

Wet							VALU	ES OF	t—t' 11	DEG	ees, l	FAHRE	NHBIT.					
bulb #.	25.2	26	26.5	27	27.5	28	28.5	29	29.5	30	30.2	31	31.2	32	32.5	33	33.2	34
48	3	2	1							1								
49	4	3	2	2	1			1		l					1			
50	5	4	3	3	2	2	1	1		1					1	1	i	
51	6	5	4	4	3	3	2	2	1	1			1					
52	8	7	7	6	5	4	4	3	3	2	2,	1	_					
53	9	8	8	7	6	5	5	4	4	3	3	2	2	1	1			
54	10	9	9	8	7	6	6	5	5	4	4	3	8	2	2	1	1	
55	11	10	10	9	8	8	7	в	6	5	5	4	4	3	3	2	2	1
56	12	12	11	10	10	9	8	7	7	6	6	5	5	4	4	3	3	2
57	13	13	12	11	11	10	9	8	8	7	7	6	6	5	5	4	4	3
58	14	14	13	12	12	11	10	10	9	8	8	7	7	6	6	5	5	4
59	15	15	14	13	13	12	11	11	10	9	9	8	8	7	7	6	6	5
60	17	16	15	14	14	13	12	12	11	10	10	9	9	8	8	7	7	6
61	17	17	16	15	14	14	13	12	12	11	11	10	10	9	8	. 8	8	7
62	18	17	17	16	15	15	14	13	13	12	11	11	10	10	9	9	8	8
63	19	18	17	17	16	16	15	14	14	13	12	12	11	11	10	10	9	9
64	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11	11	10	9
65	21	20	19	19	18	17	16	16	15	15	14	13	13	12	12	11	11	10
66	22	21	20	19	19	18	17	17	16	16	15	14	14	13	12	12	12	11
67	22	22	21	20	19	19	18	18	17	16	16	15	14	14	13	13	12	12
68	23	22	22	21	20	20	19	18	18	17	16	16	15	15	14	14	13	13
69	24	23	22	22	21	20	20	19	18	18	17	17	16	16	15	14	14	13
70	25	24	23	22	22	21	20	20	19	19	18	17	17	16	16	15	15	14
. 71	25	25	24	23	22	22	21	21	20	19	19	18	17	17	16	16	15	15
72	26	25	25 *	24	23	23	22	21	21	20	19	19	18	18	17	17	16	16
73	27	26	25	25	24	23	- 23	22	21	21	20	19	19	18	18	17	17	16
74	27	27	26	25	25	24	23	23	22	21	21	20	19	19	18	18 .	17	17
75	28	27	27	26	25	25	24	23	23	22	21	21	20	20	19	19	18	17
76	29	28	27	27	26	25	25	24	23	23	22	21	21	20	20	19	19	18
77	29	29	28	27	26	26	25	25	24	23	23	22	21	21	20	20	19	19
78	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	20	20	19
79	30	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	20	20
80	31	30	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	21
81	31	31	30	29	29	28	27	27	26	26	25	24	24	23	23	22	22	21
82	32	31	31	30	29	29	28	27	27	26	26	25	24	24	23	23	22 -	22

TABLE VII,

	(66.											******					·
Wet bulb t'.						VALUE	s or t	-t' 1N	DEGR	ers, F	AHRBN	HEIT.					
Wee Suid V	34.2	35	35.2	36	36.2	37	37.5	38	38.2	39	39.5	40	40.2	41	41.5	42	42.5
53																	
54																	
55	1																
56	2	1	1			1		-									
57	8	2	2	1	1	1											
58	4	3	3	2	2	1	· <sub>1</sub>	1									
59	5	4	4	3	3	2	2	2	1	1			}				
60	6	5	5	4	4	3	3	3	2	2	2	1	1	1			
61	7	6	6	5	5	4	4	3	3	3	2	2	2	1	1	1	1
62	7	7	6	6	6	5	5	4	4	3	3	3	2	2	2	1	1
63	8	8	7	7	8	6	6	5	5	4	4	4	3	3	3	2	2
64 64	9	9	8	8	7	7	7	6	6	5	5	5	4	4	4	3	3
65	10	9	9	9	8	8	7	7	7	6	8	5	5	5	4	4	4
66	11	10	10	9	9	8	8	8	7	7	7	8	6	5	5	5	4
67	11	11	10	10	10	9	9	8	8	8	7	7	7	6	6	6	5
68	12	12	11	11	11	10	10	9	9	8	8	8	7	7	7	6	6
69	13	12	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7
70	14	13	13	12	12	11	11	10	10	10	9	9	9	8	8	8	7
71	14	14	13	13	12	12	12	11	11	10	10	10	9	9	9	8	8
72	15	15	14	14	13	13	12	12	11	11	11	10	10	10	9	9	9
		1,		14	14	-	13	13	12	12	<b> </b>	11		10	-		-
78	16 16	15 16	15 15	15	14	13 14	14	13	13	12	11	12	11	10 .	10	10	9
74 75	17	16	16	16	15	15	14	14	13	13	13	12	12	12	11	11	10
76 78	17	17	17	16	16	15	15	14	14	14	13	13	12	12	12	11	11
77	18	18	17	17	16	16	15	15	14	14	14	13	13	13	12	12	12
					_				_		_				_		_
78	19	18	18	17	17	17	16	16	15	15	14	14	14	18	13	13	12
79 U	19	19	18	18	18	17	17	16	16	15	15	15	14	14	13	13	13
80	20	20	19	19	18	18	17	17	16	16	16	.15	15	14	14	14	13
81	21	20	20	19	19	18	18	17	17	16	16	16	15	15	14	14	14
82	21	21	20	20	19	19	18	18	17	17	17	16	16	15	15	15	14

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°.

Wet						VALUE	8 OF 1-	t' IN D	egrees,	FAHRE	NHBIT.				
bulb t.'	0	0.2	1	1.2	2	2.2	3	3.2	4	4.2	5	5 <b>.2</b>	6	6.2	7
23	123	·118	·113	107	102	<b>.</b> 091	.092	'087	.082	.077	.072	*067	.062	.057	.051
24	128	·123	.118	.113	108	•103	.098	•393	*087	.082	.077	.072	.067	·062	.057
25	134	·129	124	.119	114	.108	.103	.098	.093	.088	.083	.078	.073	.068	.063
26	140	135	•130	125	·120	114	109	104	.099	.094	.089	.084	.079	.074	.069
27	146	141	·136	131	126	.121	·116	·110	105	100	.092	.090	.085	.080	·075
28	'153	148	112	137	132	.127	122	117	112	.107	102	.089	'091	.086	.081
29	155	154	149	144	139	134	122	117	119	113	108	103	.098	.093	.088
30	167	161	156	151	146	141	136	131	113	120	115	110	105	'100	*095
31	174	169	164	158	153	148	143	138	133	128	123	'118	112	107	102
32	182	176	170	165	159	•153	'148	142	.136	•131	·125	·120	114	.108	.103
33	.189	183	178	172	166	•161	155	149	141	138	132	·127	•121	116	110
34	197	.191	185	180	174	168	.163	157	151	146	140	134	129	123	.117
35	204	.199	·193	187	182	.176	171	.165	159	151	148	142	137	.131	125
36	.213	•207	201	196	190	181	179	173	·167	162	156	150	145	139	.133
37	.221	215	210	204	<b>·198</b>	•193	'187	.181	175	170	164	•159	153	147	142
38	230	.224	218	213	207	201	196	190	184	179	173	167	·162	· <b>1</b> 56	•150
39	239	-233	-227	-222	·216	-210	205	199	193	·188	182	.176	171	165	159
40	248	243	.237	231	-226	.220	214	208	203	197	.191	186	180	174	.168
41	258	252	247	241	235	-229	224	218	.212	207	201	195	.190	184	'178
42	-268	262	257	*251	*245	240	.284	*228	•222	217	·211	205	200	194	186
43	278	273	.267	261	·256	250	*244	*238	.233	.227	221	216	210	204	.198
44	289	'283	278	.272	.266	. 261	*255	*249	243	.238	•232	*226	.221	.215	209
45	.300	•295	·289	283	*278	.272	.266	•260	*255	249	243	238	.232	226	-22
46	312	*306	.300	295	.289	.283	.277	.272	*266	.260	255	249	243	·237 ·249	·23:
47	. 324	*318	'312	.306	*301	.295	•289	*283	*278	-272	*266	*261	*255	240	24
48	.336	.330	324	*319	.313	307	-302	296	•290	284	*279	.273	267	·262	•256
49	-349	*343	.337	.331	-326	-320	.314	-309	.303	297	.591	286	.280	.274	268
50	*362	.356	.350	*345	-339	-333	-327	-322	.316	· <b>3</b> 10	*304	299	-293	.287	28
51	375	.370	'364	358	-352	347	'341	-335	-329	*324	.318	.312	.308	.301	•29
52	.389	.384	.378	.872	.366	.361	*355	*349	.343	-338	*332	*326	.320	.312	.30

## TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches in the latitude of  $22^{\circ}$ —(continued).

Wet						V.	LUES	or t—t	ים אוו'	EGREES	, FAR	RENHE	T.					
alb t'.	7.5	8	8.2	9	9.5	10	10.2	11	11.2	12	12.2	13	13.2	14	14:5	15	15.2	16
23	·046	041	.036	.031	.026	.021	.016	·011	.008	.001								
21	052	047	042	.037	.031	.026	.021	.016	'011	.008	.001							
25	.057	.052	.017	.042	.037	.032	.027	·C22	·01 <b>7</b>	.012	.007	.001						
26	*063	.058	·c53	•018	.043	.038	.033	.028	.023	.018	.012	.007	.002					
27	.070	·064	· <b>J</b> 59	·051	.019	.011	.039	·034	-029	024	.019	.013	.08	.003				
																		_
28	.076	.071	.066	061	.056	.051	.012	-040	.035	.030	.025	.020	.012	'010	.002			
29	.083	.078	.072	.067	062	'057	.052	.017	.013	.037	.032	.026	'021	'016	.011	.000	.001	
30	.080	.082	.080	071	.069	.061	.059	.051	.010	.011	.039	.033	.028	.023	.018	.013	*008	.00
31	·097 ·097	092	·087	*082 *080	.077	·071	.063	·058	.028	.051	·048	·041	·036	·030	·025	·020	·015	.01
32	057	091	U00	U8U -			00.3	-038	'052	.048	041	035	1029	024	018	'012		
33	101	.099	.093	-087	.082	.076	.070	-065	.059	.053	.018	.043	.036	.031	.025	.020	.014	.00
34	112	106	100	.092	.088	.084	.078	.072	.067	.061	.055	.020	.011	.038	.033	.027	.021	.0:
35	120	114	.108	.103	.097	.091	.088	.080	.071	.069	.063	.057	.052	.018	.070	.032	.029	.0:
36	128	122	·116	1111	105	.099	.094	.088	.082	.077	.071	.065	.060	·05 &	'048	.013	1037	.0:
37	.136	.130	.125	.119	·113	.108	102	.098	.091	.085	.079	.071	.068	*062	'057	.051	.045	.0
38	145	·139	.133	128	122	'116	111	105	.089	1094	.088	.082	.077	'071	.062	.000	051	-0
39	154	148	142	·137	.131	125	.120	1114	108	.103	'097	.091	.086	.080	.071	.069	.063 -	•0
40	•163	157	152	.1 16	140	.132	·129	·123	.118	.113	.100	·101	.092	.080	.083	.078	.072	.06
41	.173	·167	.161	156	.150	111	.138	.133	127	.121	.116	·110	101	.099	.093	.087	.082	.03
42	183	·177	·171	.166	.160	.154	148	143	.137	.131	126	120	1114	.109	103	.097	.092	.0:
				_		-											_	-
43	•193	-187	182	176	·170	164	159	153	-147	142	.136	.130	125	.119	113	-107	102	.0
44	204	.198	192	.186	.181	175	169	164	158	152	117	141	135	·129	124	.118	.113	-10
45	.212	.209	.503	.198	.192	.186	180	.175	.169	163	.128	.152	146	141	.135	129	·123	1
46	-226	220	215	'200	.503	197	.192	.186	.180	.175	169	.163	158	152	-146	140	·135	'1
47	.238	.232	-226	.551	·215	.508	204	.198	192	.188	.181	•175	.169	.163	158	.152	146	.1
48	250	211	-239	233	1000	.321	.010		.00:	-200	.100			-170	-			
49	263	257	239	233	·227		216	210	-204	199	·193	187	181	176	170	161	159	'1
469 50	203	257	261	259	240	231		223	217	·211	205	200	-191	·188	183	·177	171	10
	276	270		259	268	247	241		230						196	190	181	11
51 52	303	284	278	286	280	261	·255	249	243	238	232	226	220	215	200	217	·197 ·211	·19

## TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of  $22^{\circ}$ —(continued).

Wet						VA	LURS C	r t—t	'IN DI	GREES,	FARR	ENH BI	r.			_		
ulb t.	16.2	17	17:5	18	18:5	19	19.5	20	20.5	21	21.2	22	22.5	23	23.2	24	24.5	25
23	Ì																	
21																		
25																		
26													l					
27									}									
	-								-									-
28									ļ									
29			ł			:												
30												İ				1	14	1
31	.005		1												l			1
32			}										,					
										-		! —— 						_
83	.010	.004			į				1					l	ļ		ļ	
34 35	.018	0012	.007					l						İ				
36	018	.020	007	-009	.003													
37	026	.028	023	.017	7011	.008	1			]						Ì		
	009	020	020															
38	043	.037	.031	-026	.020	·014	.009	.003										
39	.052	-046	1040	.035	1029	.023	.017	.012	.006								1	
40	.081	.055	1049	.044	.038	.032	.027	.021	.015	.010	.004						l	
41	.070	.065	.059	.053	.048	.042	.036	.030	.025	-019	.013	.008	-002					
42	.080	.075	.069	.063	.057	.052	.046	, 040	.035	029	.023	.018	.012	.008				
																		_
43	.090	085	079	073	.098	.062	.056	.050	045	-039	.033	.028	.022	.016	.011	.005		
44	101	*095	.090	.084	.078	·072.	067	.061	.055	.050	044	·038	·032	·027	·021	.015	·010	.00
45	112	106	101	.095	.089	095	'078	·072 ·083	·066	.061	·055	.080	055	.040	1043	·028	021	.01
48 47	·123	·118	·123	·106	·100	106	.101	083	.089	·072	.078	000	-066	.061	055	038	032	-03
***	100	120	143	110	112	100	101	000		000	0/8		000				V30	Ľ
48	·147	141	.136	.130	124	.118	113	.107	.101	.096	.090	.084	.078	.073	.067	'061	.055	.08
40 40	160	154	136	130	137	.131	113	120	114	108	102	.097	.091	.085	079	074	.068	.00
50	173	167	161	155	.150	144	138	132	127	121	115	·110	104	.008	.092	.087	'081	6.
51	186	180	174	169	163	157	152	146	140	134	129	123	117	111	106	·100	'094	0.
52	200	194	188	183	177	171	165	160	154	148	142	137	•131	125	119	114	108	1.10

## TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet							Value	5 OF 6-	- <i>t'</i> in	Drgar	ES, FA	HRENE	BIT.			Programmen		************
bulb t'.	25.2	26	26.5	27	27.5	28	28.5	29	29.5	30	30.2	31	31.2	32	32.5	33	33.2	34
23																		
21												1						
25 26																		
27																		r r
										ļ		_						
28																		
29																		
30																		
31 32																		
92		_																
33																		
34																		
35																		
36																		
37																		
	_				-													
38																		
39 40				1														
41																		
42															į			
																	· <b>-</b>	
43																		
44																		
45	.009	1004	.000	.000														
46	·020 ·032	·015	·009	·003	.009	.003												
-																		
48	.044	-038	.033	.027	.021	·015	·010	·004										
49	.057	051	045	.039	034	028	.022	016	011	·005								
4 50	.069	.064	.058	.052	.046	041	.035	.029	024	.018	012	.008	·001					
51	.083	.077	071	.065	.080	.054	.048	042	-037	.031	-025	.020	.014	.008	.002			n
52	.096	·091	.085	.079	.073	.068	.062	.056	.020	.045	.039	.033	.027	.022	.018	.010	.002	

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry ' and wet bulb ' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet					•	ALURS	or <i>t-t'</i>	IN DEC	errs,	FAHREN	HRIT.				
oulb t'.	0	0.2	1	1.2	2	2.5	3	3.2	4	4.2	5	5.2	6	6.2	7
53	101	.398	392	387	381	.375	.369	-361	358	352	346	341	•335	329	*323
54	· <b>4</b> 19	·413	107	.101	396	.390	381	378	.373	.367	.361	*355	.350	.344	.338
55	.431	.428	423	417	.111	-4/95	400	.391	.388	*382	.377	.371	·365	*359	*354
56	.450	-111	.739	·433	127	-421	·416	.410	.404	.398	392	-387	.381	.375	369
57	167	· <b>4</b> 61	.722	.110	-114	.438	-132	-426	·421	, ·415	-409	.103	397	*392	.386
58	481	•478	•472	-466	-461	455	.449	-413	.137	.432	-426	· <del>1</del> 20	.414	*409	'403
59	501	195	490	181	478	472	466	. 461	455	119	443	438	432	426	420
60	519	514	508	.502	.108	490	485	179	473	467	461	456	450	414	438
61	539	532	526	•521	.212	509	503	-497	492	486	480	474	:468	463	• 57
62	*557	.551	.216	.510	·534	-528	.522	.212	·511	•505	.499	.493	488	482	476
			-566						-531						•496
63	577	·571 ·592	.586	•560	554	*518 *569	563	.557	'551	'525	.219	·513	*508	502	
61	-598	- 1	607	·580 ·601	·574 ·596		.281	578	'572	·545 ·566	·540 ·561		•528	'522	·516 ·537
65	·619	·635	-629	601	617	·590 ·612	.608	.600	.201	*588	*582	·555 ·577	·510 ·571	·543 ·565	*559
66 67	·663	657	651	'648	.610	631	628	622	'617	.611	·605	•599	.593	·587	•582
			-675	-669	-663		-651	.615	-640	-634		-622			
69	686	680	.699	693		•657 •681	675	.669	.663	1658	'628	646	616	'611	·605
69	'710	701	723	717	·687	706	700	691	'688	*682	·652 ·676	671	.640	·634 ·659	*628
70	.735	754	749	717	711	731	700	719	713	708	702	-696	.665 .690	684	*653 *678
71 72	·760 ·786	781	775	769	763	757	720 751	745	·710	731	702	722	716	710	704
73	· <b>81</b> 3	-807	-802	·796	790	781	•778	.772	•766	-761	•755	.749	'743	.737	'731
74	.811	.835	*829	*823	.818	*812	-808	*800	·79 i	•788	.782	.777	'771	.765	.759
75	*870	*864	*858	*852	*846	. 840	*834	*829	*823	.817	.811	.802	.799	.793	.787
76	-899	-893	·88 <b>7</b>	.881	.876	·870	864	*858	*852	.816	*840	.834	*829	.833	*817
77	·929	·923	918	·912	.908	•900	*894	*888	*882	-876	·870	'865	*859	'853	*847
78	.960	955	949	913	1937	931	*925	*919	*913	.908	.902	.896	.890	-884	.876
79	.993	987	.081	975	-969	.963	957	*951	946	910	934	928	-922	.916	.910
80	1.026	1.020	1.014	1.008	1.002	-996	*990	.881	978	973	.967	961	955	949	943
81	1.060	1.054	1.018	1.042	1.036	1.030	1.024	1.018	1.013	1.007	1.001	.995	.989	983	977
82	1.095	1.089	1.083	1.077	1.071	1.065	1.059	1.053	1.047	1.041	1.036	1.030	1.024	1.018	1.012

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet bulb ".  53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72	7·5  318 332 348 364 380  397 414 433 4451 470 511 532 553 576	8 -312 -327 -342 -358 -374 -409 -445 -445 -505 -526 -548 -570	8'5 -306 -321 -336 -352 -385 -403 -421 -440 -459 -520 -542 -564	9 -300 -315 -331 -346 -363 -380 -389 -415 -434 -453 -473 -473 -473 -536 -558	9-5	10 -269 -304 -319 -335 -351 -368 -364 -442 -441 -461 -461 -461 -503 -524 -547	283 298 313 329 345 -362 380 398 416 -435 -476 497 518	11 -277 -292 -307 -323 -340 -357 -374 -392 -411 -430 -450 -470 -401 -513 -535	272 286 302 318 334 351 368 386 405 424 444 464 485 507	12 266 281 296 312 328 345 362 380 418 438 458 479 501	12:5  -280 -275 -290 -308 -322 -339 -357 -375 -3412 -412 -432 -452 -473 -495	13 -254 -269 -284 -300 -317 -333 -351 -309 -287 -406 -447 -468 -489	13:5  -249 -263 -279 -204 -311 -328 -345 -363 -382 -401 -441 -462 -484	243 -258 -273 -289 -305 -322 -339 -357 -376 -395 -415 -435 -478	14·6 -237 -252 -267 -283 -299 -316 -334 -352 -370 -389 -429 -450 -472	231 -240 -261 -277 -294 -310 -328 -346 -383 -403 -443 -444 -466	15·5  -226 -240 -256 -271 -288 -335 -322 -340 -358 -378 -439 -440	220 235 250 266 282 299 316 334 353 372 391 412 433 454
54 55 56 57 58 59 60 61 62 63 64 65 66 67	**392***384***380***397***397***333**451***470***511***532**553**576	327 342 358 374 391 391 449 445 445 4464 505 526 548	**321 **336 **352 **369 **385 **403 **421 **440 **459 **479 **499 **520 **542	315 331 346 363 397 415 434 -473 493 514 536	309 325 341 357 374 391 409 428 447 467 508	304 319 335 351 388 386 404 422 441 461 481 503 524	-298 -313 -329 -345 -380 -398 -416 -435 -476 -497 -518	**292 **307 **323 **340 **357 **392 **411 **430 **450 **470 **513	286 302 318 334	·281 ·296 ·312 ·328 ·345 ·362 ·380 ·399 ·418 ·438 ·458 ·479 ·501	275 -290 -306 -322 -339 -357 -375 -393 -412 -432 -432 -452 -473 -495	289 284 300 317 333 351 309 287 408 4468 449	263 279 294 311 328 345 363 382 401 441 442 442 444 442	258 273 289 305 322 339 357 376 395 415 435 456 478	· 109 · 1409 · 1409 · 1409 · 1429 · 1472	-246 -261 -277 -294 -310 -328 -346 -383 -403 -423 -441 -466	240 256 271 288 335 322 340 358 378 378	235 250 266 282 282 299 316 334 353 372 391 412 433 454
55 56 57 58 59 60 61 62 63 64 65 66 67	**348** **380  **397 **\$14 **\$33 **451 **470  **511 **532 **553 **576	*342 *358 *374 *391 *409 *427 *445 *464 *505 *505 *526 *548	*336 *352 *389 *385 *403 *421 *440 *459 *479 *499 *520 *512	331 346 363 	325 341 357 374 391 428 447 467 467 508	319 335 351 368 386 404 422 441 -461 481 -503	313 329 345 380 380 398 416 435 476 497	307 323 340 357 374 392 411 430 450 470 451	302 318 334 351 368 386 405 124 444 464 485	· 296 · 312 · 328 · 345 · 362 · 380 · 418 · 443 · 443 · 4479 · 501	-290 -306 -322 -339 -357 -375 -393 -412 -432 -452 -473 -495	284 300 317 333 351 369 287 309 287 3468 4468	279 204 311 328 345 363 382 401 421 441 4462 484	273 289 305 322 339 357 376 396 415 435 448	*267 *283 *299 *316 *334 *352 *370 *389 *429 *450 *472	·261 ·277 ·294 ·310 ·328 ·346 ·364 ·363 ·403 ·423 ·441 ·466	256 271 288	· 2500 · 2862 · 2892 · 3166 · 3344 · 353 · 372 · 391 · 412 · 433 · 454
58 59 60 61 62 63 64 65 66 67	-364 -380 -397 -414 -433 -451 -470 -511 -532 -553 -576	·358 ·374 ·391 ·409 ·427 ·445 ·464 ·505 ·526 ·526	*352 *369 *385 *403 *421 *440 *459 *479 *520 *542	-346 -363 -380 -397 -415 -434 -453 -473 -493 -514 -536	341 357 374 391 409 428 447 467 467 508	*335 *351 *388 *386 *404 *422 *441 *461 *481 *503 *524	*329 *345  *380 *398 *416 *435  -456 *476 *497 *518	*323 *340 *357 *374 *392 *411 *430 *450 *470 *461 *513	*318 *334 *351 *368 *368 *405 *424 *444 *464 *485 *507	*312 *328 *345 *362 *380 *399 *418 *438 *458 *479 *501	*339 *357 *375 *393 *412 -432 *452 *473 *495	*300 *317 *333 *351 *309 *287 *406 *446 *447 *468 *489	*204 *311 *328 *345 *363 *363 *401 *421 *441 *462 *484	·289 ·305 ·322 ·339 ·357 ·376 ·395 ·415 ·435 ·456 ·478	*283 *299 *316 *334 *352 *370 *389 *429 *450 *472	·277 ·294 ·310 ·328 ·346 ·364 ·363 ·403 ·423 ·444 ·466	·271 ·288 ·335 ·322 ·340 ·358 ·378 ·397 ·418 ·439 ·460	· 2866 · 2822 · 2999 · 3166 · 3334 · 3533 · 3722 · 3911 · 4122 · 433 · 454
58 59 60 61 62 63 64 65 66 67	-380 -397 -414 -433 -451 -470 -511 -532 -553 -576	·374 ·391 ·409 ·427 ·445 ·464 ·481 ·505 ·526 ·548	·369  ·385 ·403 ·121 ·440 ·459  ·179 ·499 ·520 ·512	363 380 387 415 434 453 473 493 514	·357 ·374 ·391 ·109 ·428 ·447 ·467 ·487 ·508 ·530	*351 *368 *386 *404 *422 *441 *461 *481 *503 *524	·345 ·362 ·380 ·398 ·416 ·435 ·455 ·476 ·497 ·518	·340 ·357 ·374 ·392 ·411 ·430 ·450 ·470 ·491 ·513	*351 *368 *386 *405 *424 *414 *464 *485 *507	·345 ·345 ·362 ·380 ·399 •418 ·438 ·458 ·479 ·501	·322 ·339 ·357 ·375 ·393 ·412 ·432 ·452 ·473 ·495	·333 ·351 ·369 ·287 ·406 ·426 ·447 ·468 ·489	·328 ·345 ·363 ·382 ·401 ·421 ·441 ·462 ·484	·305 ·322 ·339 ·357 ·376 ·395 ·415 ·435 ·456 ·478	·316 ·334 ·352 ·370 ·389 ·409 ·429 ·450 ·472	·310 ·328 ·346 ·364 ·383 ·403 ·423 ·444 ·466	·288 ·335 ·322 ·340 ·358 ·378 ·397 ·418 ·439 ·460	· 282 · 299 · 316 · 334 · 353 · 372 · 391 · 412 · 433 · 454
58 59 60 61 62 63 64 65 66 67	-397 -414 -433 -4451 -470 -511 -532 -553 -576	391 309 3427 3445 3464 3481 505 528	·385 ·403 ·121 ·440 ·459 ·179 ·499 ·520 ·512	380 387 415 434 453 -473 493 514 536	374 391 109 428 447 467 487 508	**************************************	·362 ·380 ·398 ·416 ·435 ·455 ·476 ·497 ·518	·357 ·374 ·392 ·411 ·430 ·450 ·470 ·491 ·513	·351 ·368 ·386 ·405 ·424 ·414 ·464 ·485 ·507	·345 ·362 ·380 ·399 •418 ·438 ·458 ·479 ·501	·339 ·357 ·375 ·393 ·412 ·432 ·452 ·473 ·495	·333 ·351 ·369 ·287 ·406 ·426 ·447 ·468 ·489	·328 ·345 ·363 ·382 ·401 ·421 ·441 ·462 ·484	'322 '339 '357 '376 '395 '415 '435 '456 '478	·316 ·334 ·352 ·370 ·389 ·409 ·429 ·450 ·472	·310 ·328 ·346 ·364 ·383 ·403 ·423 ·444 ·466	·335 ·322 ·340 ·358 ·378 ·397 ·418 ·439 ·460	2999 316 334 353 372 391 412 433 4454
69 60 61 62 63 64 65 66 67 68 69 70	·414 ·433 ·451 ·470 ·490 ·511 ·532 ·553 ·576	·409 ·427 ·445 ·464 ·481 ·505 ·526 ·548	·403 ·121 ·440 ·459 ·179 ·199 ·520 ·512	-380 -397 -415 -434 -453 -473 -493 -514	·391 ·409 ·428 ·447 ·467 ·487 ·508 ·530	386 -404 -422 -441 -461 -481 -503 -521	·380 ·398 ·416 ·435 ·455 ·476 ·497 ·518	'374 '392 '411 '430 '450 '470 '491 '513	·368 ·386 ·405 ·424 ·414 ·461 ·485 ·507	·362 ·380 ·399 •418 ·438 ·458 ·479 ·501	·357 ·375 ·393 ·412 ·432 ·452 ·473 ·495	·351 ·369 ·287 ·406 ·426 ·447 ·468 ·489	·345 ·363 ·382 ·401 ·421 ·441 ·462 ·484	·339 ·357 ·376 ·395 ·415 ·435 ·456 ·478	·334 ·352 ·370 ·389 ·409 ·429 ·450 ·472	'328 '346 '364 '383 '403 '423 '414 '466	·322 ·340 ·358 ·378 ·397 ·418 ·439 ·460	·316 ·334 ·353 ·372 ·391 ·412 ·433 ·454
69 60 61 62 63 64 65 66 67 68 69 70	·414 ·433 ·451 ·470 ·490 ·511 ·532 ·553 ·576	·409 ·427 ·445 ·464 ·481 ·505 ·526 ·548	·403 ·121 ·440 ·459 ·179 ·199 ·520 ·512	·397 ·415 ·434 ·453 ·473 ·493 ·514 ·536	·391 ·409 ·428 ·447 ·467 ·487 ·508 ·530	386 -404 -422 -441 -461 -481 -503 -521	·380 ·398 ·416 ·435 ·455 ·476 ·497 ·518	'374 '392 '411 '430 '450 '470 '491 '513	·368 ·386 ·405 ·424 ·414 ·461 ·485 ·507	·362 ·380 ·399 •418 ·438 ·458 ·479 ·501	·357 ·375 ·393 ·412 ·432 ·452 ·473 ·495	·351 ·369 ·287 ·406 ·426 ·447 ·468 ·489	·345 ·363 ·382 ·401 ·421 ·441 ·462 ·484	·339 ·357 ·376 ·395 ·415 ·435 ·456 ·478	·334 ·352 ·370 ·389 ·409 ·429 ·450 ·472	'328 '346 '364 '383 '403 '423 '414 '466	·322 ·340 ·358 ·378 ·397 ·418 ·439 ·460	·316 ·334 ·353 ·372 ·391 ·412 ·433 ·454
69 60 61 62 63 64 65 66 67 68 69 70	·433 ·451 ·470 ·490 ·511 ·532 ·553 ·576	·427 ·445 ·464 ·481 ·505 ·526 ·548	· 121 · 140 · 1459 · 179 · 199 · 520 · 512	·416 ·434 ·453 ·473 ·493 ·514 ·536	· 109 · 128 · 117 · 167 · 187 · 508 · 530	·404 ·422 ·441 ·461 ·481 ·503 ·524	·398 ·416 ·435 ·455 ·476 ·497 ·518	'392 '411 '430 '450 '470 '491 '513	'386 '405 '424 '414 '464 '485	·380 ·399 •418 ·438 ·458 ·479 ·501	·375 ·393 ·412 ·432 ·452 ·473 ·495	·369 ·287 ·406 ·426 ·447 ·468 ·489	·363 ·382 ·401 ·421 ·441 ·462 ·484	·357 ·376 ·395 ·415 ·435 ·456 ·478	·352 ·370 ·389 ·109 ·429 ·450 ·472	'346 '364 '383 '403 '423 '414 '466	·340 ·358 ·378 ·397 ·418 ·439 ·460	·334 ·353 ·372 ·391 ·412 ·433 ·454
61 62 63 64 65 66 67	·451 ·470 ·490 ·511 ·532 ·553 ·576	·445 ·464 ·481 ·505 ·526 ·548	·440 ·459 ·479 ·499 ·520 ·512	·434 ·453 ·473 ·493 ·514 ·536	·428 ·447 ·467 ·487 ·508 ·530	·422 ·441 ·461 ·481 ·503 ·524	·416 ·435 ·455 ·476 ·497 ·518	·411 ·430 ·450 ·470 ·491 ·513	·405 ·424 ·414 ·464 ·485 ·507	·399 •418 ·438 ·458 ·479 ·501	·393 ·412 ·432 ·452 ·473 ·495	·287 ·406 ·426 ·447 ·468 ·489	·401 ·421 ·441 ·462 ·484	·376 ·395 ·415 ·435 ·456 ·478	·870 ·389 ·109 ·429 ·450 ·472	·364 ·383 ·403 ·423 ·444 ·466	·358 ·378 ·397 ·418 ·439 ·460	·353 ·372 ·391 ·412 ·433 ·454
62 63 64 65 66 67	·470 ·490 ·511 ·532 ·553 ·576	·484 ·484 ·505 ·526 ·548	·459 ·479 ·499 ·520 ·512	·453 ·473 ·493 ·514 ·536	·447 ·467 ·487 ·508 ·530	·441 ·461 ·481 ·503 ·524	·435 ·455 ·476 ·497 ·518	·430 ·450 ·470 ·491 ·513	·424 ·414 ·464 ·485 ·507	*418  *438  *458  *479  *501	'412 '432 '452 '473 '495	·406 ·426 ·447 ·468 ·489	·401 ·421 ·441 ·462 ·484	·415 ·435 ·456 ·478	·109 ·129 ·150 ·172	·383 ·403 ·423 ·444 ·466	·378 ·397 ·418 ·439 ·460	·372 ·391 ·412 ·433 ·454
63 64 65 66 67 68 69 70	·490 ·511 ·532 ·553 ·576	*484 *505 *526 *548	·179 ·199 ·520 ·512	·473 ·493 ·514 ·536	·467 ·487 ·508 ·530	·461 ·481 ·503 ·521	*455 *476 *497 *518	·450 ·470 ·491 ·513	·414 ·464 ·485 ·507	·438 ·458 ·479 ·501	·432 ·452 ·473 ·495	·426 ·447 ·468 ·489	·421 ·441 ·462 ·484	·415 ·435 ·456 ·478	· 109 · 129 · 150 · 172	·403 ·423 ·444 ·466	·397 ·418 ·439 ·460	·391 ·412 ·433
61 65 66 67	·511 ·532 ·553 ·576	·505 ·526 ·548	·179 ·199 ·520 ·512	·493 ·514 ·536	·487 ·508 ·530	·481 ·503 ·521	·476 ·497 ·518	·470 ·491 ·513	·464 ·485 ·507	·458 ·479 ·501	·452 ·473 ·495	·447 ·468 ·489	·441 ·462 ·484	·435 ·156 ·478	·429 ·450 ·472	·423 ·444 ·466	·418 ·439 ·460	·412 ·433 ·454
61 65 66 67	·511 ·532 ·553 ·576	·505 ·526 ·548	·499 ·520 ·512	·493 ·514 ·536	·487 ·508 ·530	·481 ·503 ·521	·476 ·497 ·518	·470 ·491 ·513	·464 ·485 ·507	·458 ·479 ·501	·452 ·473 ·495	·447 ·468 ·489	·441 ·462 ·484	·435 ·156 ·478	·429 ·450 ·472	·423 ·444 ·466	·418 ·439 ·460	·412 ·433 ·454
61 65 66 67	·511 ·532 ·553 ·576	·505 ·526 ·548	·499 ·520 ·512	·493 ·514 ·536	·487 ·508 ·530	·481 ·503 ·521	·476 ·497 ·518	·470 ·491 ·513	·464 ·485 ·507	·458 ·479 ·501	·452 ·473 ·495	·468 ·489	·441 ·462 ·484	·435 ·156 ·478	·429 ·450 ·472	·423 ·444 ·466	·418 ·439 ·460	·412 ·433 ·454
65 66 67 68 69 70	·532 ·553 ·576	·526 ·548	·520 ·512	·51 &	·508	-521	·497 ·518	.213	-507	.201	495	•489	484	478	-472	•466	•460	454
67 68 69 70 71	-576	1			1				1									
68 69 70		•570	-561	·558	-552	*547	-541	•535	-529	-522								
68 69 70 71	*599			l	1					000	.218	.215	.206	.200	194	*488	483	477
68 69 70 71	.599						l											
69 70 71	000	.593	.587	.581	.576	-570	.564	.558	.552	•546	541	*535	-529	.523	·517	.211	'506	-500
70 71	-623	-617	'611	605	•599	*593	-588	*582	.576	-570	.564	*558	'553	-517	.541	.535	529	-523
71	-647	-641	-636	-630	-624	.618	'612	-606	*600	-595	-589	.583	.577	.571	*565	.260	*554	.246
72	.673	•667	*661	-655	-649	.643	-637	.632	-626	-620	.614	-608	-602	-597	-591	-585	.579	.573
	.699	.693	-687	· <b>6</b> 81	-675	-669	•663	-658	.652	·646	-640	634	-628	-623	·617	.611	'605	-599
				l														
<b>p</b> o	-725	•720	714	708	-702	-696	-690	-684	-679	-673	-667	*661	-655	-640	-643	-638	-632	*626
73 74	725	720	714	708	730	724	718	712	706	.700	-694	.689	-683	677	.671	-665	-659	65
75	782	778	.770	764	758	752	746	741	.735	729	723	-717	711	.705	.699	694	.688	.68
76	.811	-805	799	.793	.787	.782	.776	.770	.761	.758	.752	.746	740	.735	.729	.723	-717	.71
77	*841	*835	-829	-823	-818	-812	-806	-800	794	.788	.782	.776	'771	.765	'759	.753	.747	.74
		.000	.000	-855	·649	-843	-837	-831	*825	-819	-813	*807	-802	-796	-790	-784	-778	.,,,,,
78	*872	.808	.893	-887	-881	843	837	-863	857	*851	*845	-839	-834	*828	-790	1816	-810	80
79 - 80	904	981	925	919	914	908	902	-896	-890	*884	-878	872	-866	-861	-855	849	-843	.83
81	971	965	959	953	948	942	936	930	924	.918	912	906	.800	-894	-888	.883	*877	-87
82	1 0,1	000	000	100	1	977		965	-959	-953		941	*935	929	-923	917	.912	.80

## TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of  $22^{\circ}$ —(continued).

Wet						VA	LUES	or <i>t</i> —t	' IN Di	GREES	, Гани	ENHEI	7.					
bulb t'.	16.5	17	17:5	18	18.2	19	19.5	20	20.5	21	21.2	22	22.5	23	23.2	24	24.5	25
53	214	.208	.203	197	·191	185	180	171	168	162	157	151	145	139	134	128	122	116
54	229	-223	.217	212	206	.500	191	.189	.183	.177	.171	166	160	154	148	143	137	.131
55	244	.238	.233	-227	.221	.215	.210	'204	198	-192	187	.181	175	169	163	158	152	146
56	260	254	248	*243	·237	·231	.225	-220	.214	. 208	202	.196	.191	.185	.179	.173	.168	162
57	·276	270	265	.259	.253	247	242	236	.230	224	·219 ,	213	207	'201	·195	190	184	·178
58	293	287	281	276	270	264	.258	.253	247	·241	*235	-229	224	218	212	.206	201	195
59	310	305	299	293	287	281	.276	270	264	.258	.253	247	241	.235	-229	224	218	212
60	.328	323	317	.311	.305	299	294	288	.282	276	270	265	259	•253	-247	242	236	230
61	347	'341	335	329	324	.318	312	'306	.300	295	289	.283	.277	.272	.266	260	254	248
62	366	.360	354	.349	343	337	.331	325	.320	314	.308	302	296	291	.285	.279	.273	.267
	l				!													
														.010				
63	386	.380	374	.368	362	357	·351	345	.339	.333	'328	.322	*316	·310	304	299	.293	287
64	406	·400	·394 ·415	.410	.104	·377 ·398	392	·365	·359 ·380	·354	·348 ·369	342	·336 ·357	351	·325 ·346	·319	·313	307
65	449	443	437	431	425	420	414	408	402	396	390	385	379	.373	367	361	356	·328 ·350
66	471	465	459	453	448	442	436	430	424	418	413	407	401	395	.389	384	378	372
0,	7.	200	100		720			200	70.7			20,	201		000	004		0,2
														1				
68	494	488	482	476	471	465	459	453	447	441	· <b>43</b> 6	430	424	·418	'412	·406	· <b>4</b> 01	*395
69	.218	'512	.208	.200	494	'488	483	477	471	'465	459	453	448	442	436	· <b>43</b> 0	424	· <b>4</b> 18
70	.245	.236	.230	.952	.219	.213	.207	.201	495	·490	484	478	472	466	·460	454	449	443
71	.567	561	*556	.220	.244	538	532	·526	.20	.212	.200	.203	497	491	485	480	474	'468
72	.263	'587	.582	·576	.570	'564	·558	·552	*546	.241	.232	.529	·523	.517	.211	.202	.200	.494
73	620	614	.608	602	597	.201	·585	·579	.573	·567	·561	.556	.550	544	.538	.532	-526	•520
74	618	642	.636	.630	624	618	612	607	601	-595	·589	-583	.577	·571	565	·560	554	.548
75	·676	670	664	·658	652	617	641	·635	-629	623	617	.611	.606	.600	.594	·588	-582	·576
76	705	-699	· <b>6</b> 93	.688	682	·676	.670	-664	·658	.652	·646	·641	-635	·629	·623	.617	·611	.605
77	.735	729	·723	718	'712	706	'700	.694	.688	·682	-676	·671	·665	·659	·653	·647	641	-635
78	·766	•760	.754	.749	.743	·737	-731	-725	.719	·713	.707	.702	-696	·690,	.684	-678	-672	-666
79	798	.792	786	.781	.775	.769	763	-757	.751	745	739	.733	.728	722	.716	.710	704	.698
80	1831	*825	.819	.813	-807	.802	.796	.790	784	.778	.772	766	.760	754	749	.743	.737	731
81	1865	'859	-853	-847	·841.	·835	-829	*824	-818	.812	-806	-800	.794	.788	.782	.776	.770	'765
82	.800	1894	.888	.882	:876	.870	-864	-858	-852	*847	-841	-835	-829	*823	·817	.811	-805	.799

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(concluded).

Wot		•				VA	LUES	or t—t	' in D	EGRRE	, Ган	RRNIE	T.					
bulb t'.	25.5	26	26.2	27	27.5	28	28.5	29	29.5	30	30-5	31	31.2	32	32.5	33	33.2	34
53	111	105	.099	-093	.088	.082	.076	.070	*065	.059	.053	.047	-042	.036	-030	024	.018	.013
54	·125	119	114	.108	.102	-096	.091	-085	.079	.073	.068	'062	-056	.020	.045	.039	.033	.027
55 .	140	135	129	·123	117	112	.106	.100	*094	.089	.083	.077	.071	.066	.060	.054	'048	043
56	156	150	145	·139	·133	·127	·122	.116	·110	104	.098	.093	.087	.081	.075	.070	'084	058
57	172	167	.161	·155	149	144	.138	132	126	·120	.112	.109	·103	-097	*092	-086	.080	074
																		!
58	189	183	177	172	·166	.160	154	149	143	137	·131	126	120	·114	·108	·102	.097	091
59	206	201	195	189	.183	177	172	166	160	154	119	143	137	·131	125	120	·114	.108
60	224	218	·213	207	201	195	189	184	178	172	166	.161	155	149	143	137	·132	1:6
61	243	-237	231	•225	219	214	208	202	198	190	185	179	173	167	·161	.156	150	144
62	262	·256	250	244	238	.233	-227	.221	215	209	204	.198	192	.186	·180	175	.160	163
63	281	275	270	264	258	252	246	211	.235	-229	.223	217	.212	206	200	194	188	183
64	301	296	290	281	278	.272	.267	261	•255	249	243	238	.232	-226	.220	214	208	203
65	.322	•316	.311	.305	299	.293	-287	282	276	270	264	258	.253	*247	241	.235	229	223
66	344	.338	332	.326	.321	.315	.309	.303	-297	.292	286	'280	27-1	.268	.262	.257	•251	245
67	.366	.360	·354	.349	343	.337	•331	.325	.319	·314	.308	.302	296	290	.285	279	.273	267
					4	_												
68	.389	-383	.377	·371	.366	-360	354	318	.342	.336	•331	-325	-319	-313	.307	301	.298	290
69	413	407	401	395	389	383	378	372	*366	360	.354	348	343	*337	331	325	.319	313
70	437	431	425	419	414	408	402	.396	-390	384	379	-373	.367	-361	-355	.349	*343	.338
71	462	456	450	-444	439	433	427	421	415	409	404	.398	.392	-386	380	.374	·368	363
72	·488	482	476	470	464	459	153	447	441	435	·429	424	418	412	406	·400	394	-388
73	·515	•509	-503	-497	-492	·485	479	474	•468	•462	456	.450	-144	·438	432	·427	421	415
73	.542	536	-530	524	519	·513	-507	501	495	489	483	478	472	466	460	454	448	442
75	-570	564	.559	.553	.547	·541	.535	.529	.523	·517	.512	-506	-500	494	488	482	476	471
76	599	.594	.288	.582	-576	.570	.584	.558	.552	-547	·541	.535	·529	.523	·517	·511	.505	.200
77	·629	·624	·618	·612	.608	-600	.594	-588	.582	'576	·571	-565	· <b>5</b> 59	.553	·547	-541	*535	.529
			_															
									.070	.00=	1004	.800	,gao	1804		·kac	,,,,,,	
78	.660	1655	-649	-643	-637	.631	·625	·619	·613	·607 ·639	·601	·596 ·627	·622	·684	*578 *810	·572	·566 ·598	·560
79	*692	.686	·680 ·713	·675	·669	-695	·657 ·690	·651 ·684	-678	-639	-683	660	654	·616	610	.634	-631	·592 ·625
80 81	·725	719	713	707	701	729	723	717	711	706	700	-694	-688	682	676	.670	664	-658
82	769	787	782	776	735	764	758	752	746	740	-734	728	722	717	711	.705	.699	-693
8	/ 63	101	102												1	1	1	

TABLE IX,

Wet	1.				v	ALUES (	or t - t'	IN DEG	eres, F	HRENH	KIT.		•		
bulb t.'	0	0.2	1	1.2	2	2.5	3	3.2	4	4.2	5	5.2	6	6.2	7
23	100	94	88	82	76	71	66	61	56	52	47	43	39	35	31
24	100	91	88	83	77	72	67	62	57	53	48	41	40	36	33
25	100	94	88	83	78	73	68	63	58	54	50	46	42	38	3
26	100	94	89	83	78	73	68	64	59	55	51	47	41	40	3
27	100	94	89	81	79	74	69	65	60 C	56	52	40	45	42	3
28	100	94	89	81	79	75	70	66	62	58	54	50	46	43	4
29	100	94	89	84	80	75	71	67	63	59	55	51	48	44	4
30	100	94	89	85	80	76	72	68	64	60	56	52	49	46	4
31	100	95	90	85	· 81	76	72	68	65	61	57	51	51	47	4
32	100	95	90	85	81	77	73	69	64	60	56	53	50	46	4
33	100	95	90	86	81	77	73	69	65	61	57	51	51	48	4
34	100	95	90	86	82	78	74	70	68	62	58	55	52	49	4
35	100	95	91	86	82	78	71	70	67	63	59	56	53	50	4
36	100	95	91	87	83	79	75	71	67	64	60	57	54	51	4
37	100	95	91	87	83	79	75	72	68	65	61	58	- 55	52	4
38	100	95	91	87	83	79	76	72	69	65	62	59	58	53	5
39	100	95	91	87	84	80	70	73	69	66	63	60	57	54	6
40	100	96	92	88	84	80	77	73	70	67	61	61	58	55	5
41	100	96	92	88	85	81	77	74	71	68	65	62	59	56	5
42	100	96	92	88	85	81	78	74	71	68	65	62	60	57	5
43	100	96	92	88	85	81	78	75	72	69	66	63	60	57	5
44	100	96	92	89	85	82	79	75	72	69	66	64	61	58	5
45	100	96	92	89	86	82	79	76	73	70	67	64	62	63	5
46	100	96	92	89	86	83	80	76	73	71	68	65	62	60	5
47	100	96	93	89	86	83	80	77	74	71	68	66	63	61	b
48	100	96	93	90	86	83	80	77	75	71	69	66	61	61	5
40	100	96	93	90	87	84	81	78	75	72	69	67	65	62	6
50	100	96	93	90	87	84	81	78	75	<b>~</b> 72	70	67	. 65	63	6
51	100	97	93	90	87	84	81	78	76	73	70	68	66	64	6
52	100	97	93	90	87	85	83	79	76	78	71	68	66	64	6

TABLE IX,

Wot		11	reter			1	ALUES	of t-	t' in d	EGER	s, Fah	RENHE	TT.	•				
bulb t.'	7.5	8	8.2	9	9.2	10	10.2	11	11.2	12	12.2	13	13.2	14	14:5	15	15.2	16
23	27	21	20	17	14	11	8	5	2									
24	29	26	22	19	16	13	10	8	5	3							1 1	
25	31	28	21	21	18	16	13	10	8	5	3	1						
26	33	29	26	23	20	18	15	13	10	8	5	3	1					
27	35	31	28	25	22	20	17	·15	12	10	8	5	3	1				
28	36	33	30	27	24	22	19	17	11	12	10	8	8	4	2			
29	38	35	32	29	26	21	21	19	16	11	12	10	8	G	4	2		
30	40	37	34	31	28	26	23	21	18	16	14	12	10	8	6	4	2	1
31	\$1	38	35	83	30	28	25	23	20	18	16	14	12	10	8	6	4	3
32	10	37	34	31	28	26	23	21	18	16	11	12	10	8	6	4	2	
												-						
33	41	38	35	33	30	27	25	22	20	18	16	11	12	10	8	6	4	2
34	13	40	37	34	31	29	26	24	22	20	18	16	14	11	10	8	6	4
35	44	41	38	35	33	30	28	25	23	21	19	17	15	13	11	10	8	6
36	45	42	39	37	34	32	30	27	25	23	21	19	17	15	13	11	10	8
37	46	43	41	38	36	33	31	20	27	21	22	20	19	17	15	13	11	10
38	17	45	12	39	37	35	32	30	28	26	24	22	20	18	17	15	13	11
39	48	46	43	41	38	36	34	32	29	27	26	24	22	20	18	17	15	12
40	49	47	14	42	40	37	35	33	31	29	27	25	23	21	20	18	16	13
41	50	48	.15	43	41	39	36	31	32	30	28	26	25	23	21	19	18	14
42	51	-10	46	41	42	40	38	36	34	31	30	28	26	24	23	21	19	15
			-				•••		35	33	31	29	27	25	24	22	21	19
43	52	50	47	45	43	41	39	37	36	34	32	30	28	27	25	24	22	21
44	53	51	48	46	44	42	40	38	37	35	33	31	30	28	27	25	24	25
45	54	52	49	47	45	43	41	39	38	36	34	83	31	29	28	26	25	23
46 47	55 56	53 53	50 51	48	46	44	42	40	39	37	35	34	32	30	29	27	26	2
	·										-			-		-	-	_
48	57	54	52	50	48	46	44	42	40	38	36	35 36	33 34	32 33	30 31	29	27	20
49	58	55	53	51	49	47	45	43	41	39	37	37	35	34	32	31	29	26
'50	59	56	54	52	50	48	46	41	42	40	38	38	36	35	33	32	30	21
51	59	67	55	53	51	49	47	45	43	41	39	39	37	36	34	33	31	3
52	60	57	55	53	51	49	48	46	44	42	40	28	3/	30	1 02	1 00	01	1

## TABLE IX,

			·we é wa															
Wet bulb t.'			<del></del>	<del></del>	<del>,</del>	,	VALUR	or t-	-t' in 1	DEGRE	ES, FAI	IRENH	RIT.	·		,		· <del></del> -
Dail V.	16.5	17	17.5	18	18.2	19	19 5	20	20.5	21	21.2	22	22.5	23	23.2	24	24.5	25
23																		
24														ļ	1			
25										ł					1			ļ ·
26																		
27																		
28													-					
29	l										1		1	1		1	1	1
80	l						30										İ	
31	1						1,3						Ì					1
32																		
33	1																	
84	2	1																
85	4	3	1															
86	8	5	3	2	1									•			1	
87	8	7	Б	4	3	1												
38	10	9	7	8	4	3	2	1										
39	12	10	9	7	6	5	4	2	1							ŀ		
40	13	12	11	9	8	7	5	4	3	2	1				1			
41	15	13	12	11	9	8	7	6	5	3	2	1						
42	16	15	12	12	n	9	8	7	6	5	4	8	2	1		,		
43	18	16	15	14	12	11	10	9	8	7	6	5	4	3	2	1		
44	19	18	16	15	14	13	11	10	9	8	7	8	5	4	3	2	1	1
45	21	19	18	16	15	14	13	12	10	9	8	7	7	6	5	4	3	2
48	22	20	19	18	16	15	14	13	12	11	10	9	8	7	.6	5	4	8
47	23	21	20	19	18	17	15	14	13	12	11	10	9	8	7	6	6	5
						<b></b> ,												
48	24	23	21	20	19	18	17	16	15	14	12	11	10	9	8	8	7	6
40	25	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7
50	26	25	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	8 ت
51	28	26	25	24	22	21	20	19	18	17	16	15	14	13	12	11	10	9
52	29	27	26	25	23	22	21	20	19	18	17	16	15	14	13	13	12	11

TABLE IX,

Wet bulb t.'		*****	***************************************		<del></del>	7	ĀLURS	07 t-	ť IN I	EGREE	s, Fah	RBNHI	IT.					
bulb t.'	<b>25</b> ·5	26	28.2	27	27.5	28	28.5	29	29.5	30	30·5	31	31.2	32	32.2	33	33 <sup>-</sup> 5	34
23																		
24 25																		
26																		
27						ı												
28																		
29																		
30 31															1			
32															İ			
33																		
34																		
35																į		
36																		
37																		
38 39																		
40																		
41																		
42									1									
43																		
41																1		
45	1	1																
46 47	3 4	2	1 3	1 2	1.	1												
	_		_															
. 48	5	5	4	3	2	2	1	1										
49	7	8	5	4	4	3	2	2	1	1								
· 50	8	7	6	6	5	4	4	3	2	2	1	1					1 3	
51	9	8	7	7	6	5	5	4	4	3	2	'2	1	1				
52	10	9	9	8	7	7	6	5	5	4	4	3	.2	. 2	1	1		

TABLE IX,

Wet					· VAI	URS OF	t-t' 11	DEGRE	ES, FA	HENNE	T.				
bulb t.	0	0.2	1	1.2	2	2.2	3	3.2	4	4:5	5	5.2	6	6.2	7
53	100	97	94	91	88	85	82	79	77	74	71	69	67	65	62
51	100	97	94	91	88	85	82	79	77	74	72	69	67	65	63
55	100	97	40	91	88	85	83	80	77	75	72	70	68	66	63
66	100	97	91	91	88	88	83	80	78	75	73	71	68	66	64
57	100	97	91	91	88	86	83	80	7₽;	76	73	71	69	67	65
58	100	97	91	91	89	86	83	81	78	76	73	72	69	67	65
59	100	97	94	92	89	86	81	81	79	77	71	73	70	68	66
60	100	97	94	92	89	87	84	81	79	77	75	73	70	68	66
61	100	97	91	92	89	87	84	82	79	77	75	73	71	69	67
62	100	97	94	92	89	87	81	82	80	78	76	73	71	69	67
63	100	97	94	92	89	87	85	82	80	78	76	74	73	70	61
61	100	97	94	92	90	87	85	83	80	78	76	74	72	70	6
65	100	ย7	95	92	90	87	85	83	81	79	77	74	72	70	6
66	100	97	95	92	90	88	85	83	81	79	77	75	73	71	6
67	100	97	93	93	90	68	86	63	81	79	77	75	73	71	6
68	100	97	95	93	90	88	86	81	81	79	77	75	73	72	7
69	100	97	95	93	90	88	88	84	82	80	78	76	7.5	72	7
70	100	97	95	93	90	88	86	84	82	80	78	76	71	72	7
71	100	98	95	93	16	88	86	84	82	80	78	76	74	73	7
72	100	98	65	93	91	89	86	84	82	80	78	76	75	78	7
73	100	1)8	95	93	91	89	87	84	82	81	79	77	75	73	7
71	100	88	95	93	91	89	87	85	83	81	79	77	75	73	2
75	100	98	95	99	91	89	87	85	83	81	79	77	75	74	2
76	100	98	95	93	91	89	87	85	83	81	79	77	76	74	2
77	100	98	196	93	91	89	87	85	83	81	80	78	76	74	1
78	100	98	96	93	91	89	87	85	83	82	80	78	76	74	7
79	100	98	98	94	91	89	87	85	84	82	80	78	76	74	1
80	100	98	96	61	92	90	88	86	84	82	80	78	77	75	1
81	100	มช	96	94	92	90	88	86	84	82	80	78	77	75	1
82	100	98	96	91	92	90	88	86	84	82	80	78	77	75	

TABLE IX,

<u>,</u>				neenue															
	Wet		~~~~~				V	ALUES	0F t-	t' in :	DEGRE	es, Fai	IRENH:	BIT.					
	outo t.	7.5	8	8.2	9	9.2	10	10.2	11	11.2	12	12.2	13	13.2	14	14.2	15	15.2	16
	53	60	58	56	54	52	50	48	47	45	43	41	40	38	37	35	34	32	31
	54	61	59	57	55	58	51_	49	47	46	41	42	. 41	39	<b>3</b> 8	36	35	33	32
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	61	65	63	61	59	57	56	54	52	51	40	47	46	44	43	42	40	39	38
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	71	69	67	65	64	62	61	59	58	56	55	53	52	51	50	48	47	46	45
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	81	72	70	69	67	66	65	63	62	61	50	58	56	55	64	53	52	51	50
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TABLE IX,

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	55	32	30	29	28	26	25	24	23	22	21	20	19	18	17	17	16	15	14
	56	33	31	80	29	27	26	25	24	23	22	21	20	19	18	18	17	16	15
	57	93	32	31	30	28	27	26	25	24	23	22	21	20	19	19	18	17	16
	58	34	33	32	31	29	28	27	26	25	24	23	22	21	20	20	19	18	17
	59	35	34	33	32	30	29	28	27	26	25	24	23	22	21	21	20	19	18
	60	36	35	33	32	31	30	29	28	27	26	25	24	23	22	21	21	20	19
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	63	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	22
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	65	40	38	37	36	35	34	83	32	31	30	29	28	27	26	25	25	24	23
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TABLE IX,

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74     28     28     27     26     26     25     24     24     23     23     22     21     21     20     20     19     19     19       76     29     28     28     27     26     26     25     24     21     23     23     22     21     21     20     20     19     19     19       76     30     29     28     28     27     26     26     25     24     21     23     23     22     21     21     20     20     19       77     30     30     29     28     28     27     26     26     25     24     24     23     23     22     21     21     20     20     19       78     31     30     29     28     27     27     26     26     25     24     24     23     23     22     21     21     20     20       79     31     31     30     29     29     28     27     27     26     25     24     24     23     23     22     21     21     21     2       80     32     32     31     30 </td <td>73</td> <td>28</td> <td>27</td> <td>27</td> <td>26</td> <td>25</td> <td>24</td> <td>24</td> <td>23</td> <td>23</td> <td>22</td> <td>21</td> <td>21</td> <td>20</td> <td>20</td> <td>19</td> <td>19</td> <td>18</td> <td>18</td>	73	28	27	27	26	25	24	24	23	23	22	21	21	20	20	19	19	18	18
75         29         28         28         27         26         26         25         24         24         23         23         22         21         21         20         20         19         1           76         30         29         28         28         27         26         26         25         24         24         23         23         22         21         21         20         20         1           77         30         30         29         28         27         26         26         25         24         24         23         23         22         21         21         20         20         1           78         31         30         29         28         27         27         26         26         25         24         24         23         23         22         21         21         20         20           79         31         31         30         29         29         28         27         27         26         25         24         24         23         23         22         22         2         2         2         2         2	1		-									1			1	l	1	1	18
78  31  30  29  28  27  27  26  26  25  24  24  23  23  22  21  21  20  1  78  31  30  29  29  28  27  27  26  26  25  24  24  23  23  22  21  21  21  20  1  79  31  31  30  29  29  28  27  27  26  26  25  24  24  23  23  22  21  21  21  20  20  20  20  20  20	3				27	26	26	25	24	21	23	23	22	21	21	20	20	19	19
78	76	80	29	28	28	27	26	26	25	24	21	23	23	22	21	21	20	20	19
79  31  31  30  29  29  28  27  27  28  25  24  24  23  23  22  22  28  80  32  32  31  30  29  29  28  27  27  28  25  25  24  24  23  23  23  23  22  22  81  33  32  31  30  30  29  29  28  27  27  28  25  25  24  24  23  23  23  23  22  22  28	77	30	80	29	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20
79  31  31  30  29  29  28  27  27  28  25  24  24  23  23  22  22  28  80  32  32  31  30  29  29  28  27  27  28  25  25  24  24  23  23  23  23  22  22  81  33  32  31  30  30  29  29  28  27  27  28  25  25  24  24  23  23  23  23  22  22  28																			
79     31     31     30     29     29     28     27     27     26     25     24     24     23     23     22     22     2       80     32     32     31     30     29     29     28     27     27     26     25     25     24     24     23     23     22     22     2       81     33     32     31     30     30     29     29     28     27     27     26     25     25     24     24     23     23     23       81     33     32     31     30     30     29     29     28     27     27     26     25     25     24     24     23     23     23	78	31	80	29	29	28	27	27	26	26	25	24	24	23	23	22	21	21	20
80     32     31     30     29     29     28     27     27     26     25     25     24     24     23     23     23     23     23       81     33     32     31     30     30     29     29     28     27     27     26     25     24     24     23     23     23     2	1									1									21
	j				80	29	29	28	27	27	28	25	25	24	24	23	23	22	22
82 83 83 83 82 81 80 80 29 28 28 27 28 28 25 25 25 24 24 23 2	81	33	32	31	30	30	29	29	28	27	27	26	25	25	24	24	23	23	22
	82	33	83	32	31	30	80	29	28	28	27	26	26	25	25	24	24	23	23

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 28.4 inches and in the latitude of 22°.

			==																
Wet						VA	LUES O	¥ t-t'	IN DE	GREES	, Гаш	KNHEI	r.						
bulb t'.	0	0.2	1	1.2	2	2.5	3	3.2	4	<b>4</b> :5	5	5.2	6	6.2	7	7.5	8	8.2	9
15	.086	.082	.077	.073	.068	.063	.059	.051	*050	.012	.041	.036	.031	•027	022	.018	.013	·008	.001
16	.090	.086	.081	.076	.072	.067	.063	.058	.023	·019	110	.010	·035	*031	.026	.021	017	'012	.008
17	094	.090	085	.080	.076	.071	-067	*062	·058	.053	.018	.011	-039	.032	.030	.025	021	.016	.013
18	.098	.094	•099	.082	.080	.076	.071	.068	002	.057	.053	018	.043	.039	.031	.030	.025	020	.016
19	103	.098	160.	.089	.085	.080	.075	.071	.066	.062	.057	052	018	.043	.039	.031	.029	.025	.020
					-											_			
	.108	103	.098	.091	.089	.082	.080	.075	.071	.066	062	.057	.052	.048	.013	.030	.031	.029	.025
20	112	103	103	.099	100	.089	.085	.080	.076	.071	.090	.063	.057	.053	018	'043	.039	180	'030
21 22	112	113	103	104	.099	160	.090	.085	.081	.076	·071	-067	062	·05s	.053	018	.011	.035	.031
23	117	118	113	109	104	100	.095	.090	.086	.081	.077	-072	*067	.063	.058	.053	.010	.011	.0 K
21	128	124	119	114	.110	105	100	·096	.091	·087	·0s2	.077	.073	.068	·064	•059	·051	·050	.04:
_												40/10	-078	.074	.069	065	.060	.055	•051
25	134	129	125	120	.112	111	106	102	-097	.092	·089	.083	0/8	1080	·075	'070	.066	061	.05
26	110	135	.131	126	121	117	112	108	103	.098	·100	1095	091	*086	·081	*077	072	001	.06
27	116	111	137	132	129	123	118	1114	100	111	106	102	007	.092	.088	.083	.078	.074	.06
28	153	148	143	139	131	129	125	120	116	111	113	102	104	.099	0094	*090	.085	081	.070
29	159	155	·150	145	141	·136	'132	127	122	110	110	100	101						
																			_
30	·166	162	157	.153	118	113	139	131	.129	125	120	115	•111	.106	102	1097	'092	-088	.08
31	.174	.169	165	160	155	151	146	111	'137	.132	·127	123	.118	.113	.109	·104	.099	.095	.090
32	182	.176	171	166	.161	156	151	146	141	135	130	125	120	115	·110	105	'100	.095	.088
33	189	·184	179	173	168	163	158	153	148	113	.138	.133	'127	122	.117	.115	107	102	.09
34	197	191	186	181	176	171	166	.161	.155	150	145	140	135	.130	125	120	1114	.109	.10
															l	l			-
		.100	.104	·189	184	.179	.174	168	.163	158	153	148	113	138	.133	127	122	117	11
35	204	·199 ·207	·194 ·202	105	192	1187	182	177	171	166	·161	.156	151	146	141	136	130	125	12
36	·213	207	202	206	200	195	190	185	.180	175	170	.165	159	154	149	1144	139	134	.12
37 38	221	225	211	211	200	201	.199	104	189	183	.178	.173	168	-163	158	153	147	142	.13
39	230	234	218	223	218	213	-208	'203	.198	192	·187	182	177	172	167	162	156	•151	11
99	200																		_
	-	i	1					•									1100		
40	248	213	.238	233	228	.222	'217	.212	207	202	197	192	186	181	176	'171	166	161	116
41	•258	•253	218	.515	.237	*232	'227	-222	217	211	206	201	196	201	·186	180	175	·170	1
42	•268	1	258	'252	217	'242	237	-232	-227	-222	216	211	206	201	206	201	196	190	17
43	278		.268	•263	.258	.252	'247	242	237	232	227	221	1	211		201	206	201	18
44	.289	284	279	274	*268	'263	258	253	248	212	237	*232	227	1 442	217	211	200	201	18

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of  $22^{\circ}$ —(continued).

Wet						7	ALUES	OF t-	-t' in 1	DEGREE	s, Fai	HRRNH	RIT.					
bulb t.'	9.5	10	10.2	11	11.2	12	12.2	13	13.2	14	14.2	15	15.5	16	16.5	17	17.5	18
15					1	1												
16	.003												l				1	
17	-007	.002		i				}	}	ļ		ł			}	1		
18	.011	.007	.002	1				1									1	
19	·016	·011	•006	*002														
20	'020	.016	·011	.006	.002							-						-
21	.025	-020	*016	'011	-006	.002										ĺ		1
22	.030	.025	.021	.018	.011	*000	.002											
23	.035	.030	.026	.021	.017	.013	.007	.003				i i		Ì				1
24	.040	.036	.031	.027	.022	.017	.013	-008	.003									
							ļ											
								-					İ		-			-
25	'046	.011	'037	.032	.028	.023	.018	1014	.009	1001								
26	'052	*017	.043	.038	.031	.029	'021	.020	'015	.010	.006			İ				
27	.058	.021	.049	.011	.040	.035	.030	.026	.021	.017	'012	'007		ļ				
28	.065	.060	.022	'051	.013	.011	*037	'032	'028	.023	.018	.011	.009	100.				
29	'071	'067	'062	'057	.053	.078	.013	.039	.031	.030	025	.020	.016	.011	.006			
30	.078	07.1	.069	-061	.080	.055	•050	-018	.041	.037	.032	.027	.023	.018	.013	.009	100	ļ
31	.086	.081	.076	.072	.067	*062	.058	.053	-018	110	.039	.031	.030	.025	021	.016	·011	.00
32	180	079	.074	.069	.061	.059	.051	.010	.013	.038	.033	.028	.023	-018	.013	.008	.003	
33	.092	.086	.081	.076	.071	*066	.061	.020	.051	.016	.010	.035	.030	.025	.020	.012	·01 <b>0</b>	.00
34	.099	-094	.089	.081	.079	.073	.068	.063	.058	053	.048	.043	.038	.033	.027	'022	.017	.01
35	107	102	-097	.092	-086	.081	.076	.071	-066	-061	-056	.051	-045	.010	.035	.030	.025	.02
36	·115	.110	105	.100	094	.089	180	1.79	.074	-069	-061	.059	.053	-018	.043	-038	.033	.02
37	123	118	.113	108	.103	.098	-093	.087	.083	.077	.072	.067	.082	*057	.051	.046	.041	.030
38	·132	127	122	117	.111	.106	.101	·096	.091	-086	.081	.075	1070	.085	*060	.055	.050	.01
39	141	.136	·13 <b>1</b>	126	120	·115	·110	105	100	-095	.000	·084	.079	·074	.069	180	.059	.05
	-150	115	140	.105	.31()	.105				104				.083	-078	.073	.068	*068
40 41	160	155	150	135	130	·125	·119	·114 ·124	109	113	108	103	.088	.083	088	.083	068	0072
01 0 42	170	165	160	144	139		139	134	119	113			108	103	088	083	077	072
	170	- 1		154	149	144	1		129	- 1	118	113	- 1	113	108	103	087	082
43		175	170	165	159	151	149	144	139	134	128	123	118	- 1				103
44	.191	.186	'180	175	·170	·165	160	155	149	141	.139	134	129	·124	118	113	.108	

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 28.4 inches and in the latitude of 22°—(continued).

<del></del> -!									<u> </u>	- Dag									
Wet bulb			1				VALT	ES OF	t−t' 11	DEG	REES,	FARRE	HEIT.	-, <del></del>	<del></del>		- <del></del>	1	1
ť.	0	0.2	1	1.2	2	2.2	3,	3.2	4	4.2	5	5.2	в	6.2	7	7.5	8	8.2	9
45	.300	205	*290	.285	.280	-274	•269	261	.259	254	-249	213	-238	-233	.228	.223	218	212	.207
46	.313	-307	.301	-296	291	286	281	.275	-270	.265	.260	.255	250	241	.538	.531	•229	•224	.218
17	324	.318	*313	.308	.303	*298	•292	*287	.282	*277	272	.266	.261	.256	'251	246	.511	•235	230
រន	.336	-331	· <b>3</b> 25	.320	*315	.310	.305	.300	294	.289	281	279	27.1	*268	*263	-258	*253	*218	.515
-19	.310	.313	.338	-333	·328	323	'317	'312	*307	-302	*297	-291	286	.281	*276	*271	*265	•260	-255
50	*362	.357	.351	316	.311	336	-331	325	-320	.312	'310	*305	•209	294	289	.281	.279	.273	.268
51	'375	· <b>37</b> 0	.365	.360	*354	.310	-311	.339	.331	-328	.323	318	.313	.308	-302	297	292	.287	*282
52	.380	.381	379	'374	.368	.363	358	.353	.318	.342	.337	.332	.327	.322	316	.311	.308	.301	*296
53	404	•399	.393	*388	.383	*378	.372	'367	.362	.357	*352	*316	.311	.336	.231	.326	.320	315	310
51	.419	·413	·108	•403	.398	.393	.387	382	'377	'372	.367	.361	.356	*351	.316	340	.335	.330	*325
55	.434	•120	.121	:418	-413	-408	-403	-398	*392	387	:382	-377	.371	'366	.361	*356	351	*315	.310
56	·450	'445	.110	.434	.429	-421	.119	413	-408	.403	-308	.393	387	.382	-377	372	'366	.361	.356
57	· <b>4</b> 67	·461	*456	-151	•446	.110	.435	.130	.425	.420	114	100	104	.399	-393	·388	.383	'378	.372
58	*484	478	.173	·468	•463	*457	*452	117	•442	· <b>43</b> 6	.431	•426	•421	115	-410	•405	•400	*395	.380
59	'501	.496	.191	485	.480	.475	•470	-464	·459	451	.119	413	438	*433	•128	422	117	412	'407
	——																		
60	·519	.214	.209	.204	.498	.493	.488	.163	.177	472	.467	.462	•456	.451	•446	141	435	.130	425
61	•538	•533	.527	.252	·517	·512	.208	•501	*496	•491	.485	.480	.475	170	. 191	*159	.451	*449	413
62	.557	•552	·5 <del>1</del> 7	'541	.236	.231	.226	.520	·515	.210	.505	*499	.491	*489	.181	178	473	.168	463
63	.577	.572	'567	*561	·556	'551	.516	.240	.535	•530	.525	-519	511	.509	503	498	.193	.488	.482
64	.208	*592	.284	.285	.577	.571	*566	-561	*553	•550	-515	•5.10	.234	•529	.21	*519	.213	.208	. 503
65	·619	·613	.608	.603	-598	•592	•587	•582	-577	·571	.208	.561	.555	.550	•545	-540	.531	.529	.524
66	641	•635	.630	*625	·619	·61 i	.609	.601	•598	.203	.282	.582	577	.571	.266	-561	.555	.220	·5 15
67	.663	.658	.653	617	.612	.637	.631	*626	.621	·616	.610	.605	.600	591	•589	581	.579	.573	.268
68	·686	.681	-676	.670	•665	.660	-655	.040	.611	.639	.633	-629	.623	.618	*6:2	.607	.602	.286	·591
69	.410	.705	·700	694	-689	·681	·678	.673	•668	.662	·657	*652	-647	.611	.636	-631	·625	·620	·615
70	.735	.730	.724	•719	.71.6	.708	.703	-698	-692	.687	682	677	·671	.666	.661	.655	.650	.619.	-639
71	760	· <b>75</b> 5	750	741	.739	.734	.728	.723	·718	712	.707	702	·697	·691	.686	.681	·875	670	-665
72	·786	·781	.776	.770	·765	.760	•755	749	744	.739	.733	-728	.723	.717	712	'706	701	.696	.691
73	·813	-808	-803	.797	.792	.787	.781	.776	.771	765	.760	-755	7.19	.744	· <b>73</b> 9	.733	.728	723	.718
74	·841	·836	-830	*825	-820	·814	-809	*804	798	.793	*788	·783	-777	.772	.767	·761	756	.750	·745
75	·870	864	*859	*854	-848	813	.838	.832	-827	-822	-816	-811	.808	.800	'795	790	784	.779	774
.		503	1.0.5		0.20	0.20			02.		010		000	000			.02		

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of 22°—(concluded).

Wet						v.	a l des	of <i>t</i> —	t' in I	BGERE	8, FAI	IBRUIF	it.					
bulb t'.	9.5	10	10.2	11	11.2	12	12.5	13	13.2	14	14.5	15	15.2	16	16.5	17	17.5	18
45	.202	197	192	.186	-181	·176	.171	-168	-161	155	-150	145	-140	.135	.130	124	-119	·114
46	.213	208	.203	198	.193	187	182	·177	172	167	·161	156	•151	·146	141	.136	·130	·125
47	.225	220	215	209	204	199	194	189	184	178	173	.168	163	·158	.152	147	142	137
48	.237	232	.227	·222	216	211	206	201	196	191	185	180	175	·170	165	159	151	.149
49	'250	245	240	234	-229	224	'219	214	208	203	198	.193	188	182	·177	172	.167	·162
50	263	258	253	247	242	237	.232	*227	.221	216	211	206	201	.195	190	185	.180	.175
51	.276	271	.266	261	256	250	2 15	210	235	.230	224	219	*214	-209	204	198	193	.189
52	290	.282	280	.275	269	264	.259	254	-249	.243	238	•233	.228	-223	.217	-212	.207	.202
53	-305	.299	294	289	284	279	.273	268	.263	.258	253	*247	.242	*237	.232	.226	.221	216
51	·320	314	.309	304	299	•293	288	283	278	273	'267	.262	257	252	'216	·211	-236	'231
55	335	333	324	-319	*31.4	-300	304	-298	*293	:288	283	-277	.272	.267	•262	.257	251	216
56	-351	.316	310	.335	.330	325	'319	*314	*309	301	298	-293	288	.283	278	.272	.267	.262
57	'367	.362	357	351	·316	.341	'336	.331	*325	320	*315	'310	.804	299	291	289	283	.278
58	'384	.379	·37 £	-368	.363	:358	.353	*347	.343	.337	.332	.326	.321	'316	-311	.305	.300	.295
59	402	'396	-391	•386	.381	.375	-370	.365	.360	354	.340	-341	.339	.333	'328	'323	.318	-312
		—																
60	·420	414	•409	404	.399	.393	·388	.383	'378	.372	*367	*362	'357	*351	.346	.311	.339	.330
61	.438	'433	428	*422	417	•412	-107	.401	.396	.391	.386	.380	'375	'370	*365	'359	351	.349
62	1457	452	'417	142	.436	•431	'426	'420	415	·410	105	*400	'394	.389	'384	'378	'373	.368
63	.177	'472	167	.461	456	·451	416	.410	'435	430	'425	419	'414	'409	•403	'398	.393	.388
64	.198	.492	•487	*482	·476	471	*466	'461	455	450	115	· <del>11</del> 0	131	*429	.454	.118	'413	· <b>4</b> 08
-							_		_								i I	
65	·519	.213	•508	.203	*497	.492	·487	*482	476	171	*466	·461	'455	'450	.145	•439	.134	'429
66	•539	531	.259	.254	•518	.213	.208	.202	•497	.492	186	.481	'476	470	465	*460	454	.119
67	•563	.557	'552	.517	-542	·536	.231	*526	•520	.212	.210	505	.499	'494	.480	'483	'478	.472
68	.586	.281	•575	.570	.262	.559	.554	.249	.213	.238	.533	-528	.522	.217	.215	'506	.201	*496
69	.610	.604	-590	-591	·588	.583	-578	.673	*567	-562	*557	.221	.216	.211	.535	*530	-525	•520
70	634	-629	.624	.618	·613	.608	*602	· <b>5</b> 97	-592	-586	-581	-576	-571	.565	.560	• <b>5</b> 55	·5 <b>1</b> 9	.211
71	.659	654	.649	-644	.638	.633	-629	.622	·617	·612	.608	-601	.596	-590	.585	.280	·575	-569
72	.685	.680	.675	·670	·464	.659	.654	*648	.643	.638	-632	-627	.622	·616	-611	.606	.601	•595
73	712	.707	.702	.698	.691	.688	.680	.675	.670	-661	-659	*654	-649	.613	.638	-633	-627	·622
74	-7:10	•735	•720	.724	.719	.713	.708	.703	-697	-692	-687	.681	·676	.671	-666	.660	.855	.650
75	·768	.763	.758	•752	-747	.742	.737	.731	.726	•721	.715	.710	.705	.699	-691	-689	.083	-678

TABLE XI,

	incr	ics.													<del></del> -				
Wet bulb							Value	8 OF 6	—/" 1N	DEGR	ees, F	AHREN	HRIT.						
ť.	0	٠٠5	1	1.5	2	2.2	3	3.2	-14	4.2	5	5.2	- E	6.2	7	7.5	8	8.2	9
15	100	93	86	79	72	66	60	51	10	42	38	33	28	23	19	15	11	7	3
16	100	93	86	79	73	67	62	56	49	-11	39	35	30	25	21	17	13	10	ថ
17	100	91	87	80	71	69	62	57	52	46	11	36	32	27	23	19	16	12	9
18	100	94	87	80	71	69	63	58	53	18	43	38	34	29	25	22	18	15	11
19	100	91	87	81	75	70	61	59	54	49	15	40	30	31	28	24	20	17	11
												-							
20	100	91	88	82	76	70	65	60	55	51	-16	-12	37	33	29	26	22	19	16
21	100	91	88	82	76	71	66	61	57	52	17	13	39	35	31	28	25	21	18
22	100	91	ક્ષ	83	77	72	67	62	58	53	10	-15	41	37	33	30	27	23	20
23	100	91	88	83	78	73	68	63	59	51	50	46	12	39	35	32	28	25	2.
21	1400	95	89	81	78	74	69	61	59	55	52	18	11	ю	37	33	30	27	21
														_					
25	100	95	b9	81	79	71	69	65	61	57	53	40	45	41	38	35	32	29	26
26	100	95	90	85	79	75	70	66	62	58	54	50	46	43	10	37	31	31	28
27	100	95	90	85	80	76	71	67	63	59	55	51	18	14	11	38	35	32	30
28	100	95	90	85	81	76	72	68	64	60	56	53	49	-16	43	10	36,	31	31
29	100	95	90	86	81	77	73	69	65	61	57	51	51	47	11	41	38	35	33
30	100	95	90	86	82	77	74	69	65	62	59	55	52	-10	16	13	40	37	35
31	100	95	91	87	82	78	71	70	67	63	60	50	53	50	17	-11	11	38	36
32	100	95	89	86	82	78	71	70	66	62	59	55	52	19	16	13	10	38	35
33	100	95	90	56	82	78	71	71	67	63	60	56	53	50	-17	11	-12	39	37
131	100	95	90	87	83	79	75	71	68	61	61	57	51	51	48	15	133	10	38
					_												-		
35	100	96	91	87	83	79	76	72	68	65	62	58	55	52	19	47	41	<u>1</u> 1	39
36	100	96	91	87	83	80	76	73	69	66	62	59	56	51	50	18	45	12	-10
37	100	96	91	88	81	80	77	73	70	67	63	60	57	51	51	49	16	43	41
38	100	96	92	88	81	81	77	71	70	67	64	61	58	55	52	50	17	41	42
39	100	96	92	68	81	81	78	71	71	68	65	62	59	56	53	51	48	46	43
ľ	1		i																-
40	100	96	92	88	85	81	78	75	72	68	66	63	60	57	51	52	49	47	41
11	100	96	92	89	85	82	78	75	1-   72	G0	66	61	61	58	55	53	50	48	15
42	100	96	92	89	85	52	79	76	73	70	67	61	62	59	56	53	51	49	460
43	100	96	93	89	86	82	79	76	73	70	68	65	62	60	57	54	52	50	47
44	100	96	93	89	86	83	80	77	71	71	69	65	63	60	58	55	53	50	48
1	, <del></del>	<u> </u>	!	! 	i	·	۱	! 		l =		! 		· - =	==	·			

TABLE XI,

Wet						V.	ALUES	OF 1-	l' in D	EGREE	8, FAH	RENIIE	IT.					
bulb t'.	9.5	10	10.2	11	11.2	12	12.5	13	13.2	14	14.5	15	15.5	16	16.2	17	17.5	18
15	1			-														
16	2																	
17	5	1		ŀ														
18	7	5	1															
19	10	7	4	1														
20	12	9	6	3	1			-		_				-				
21	15	12	9	6	3	1												
22	17	11	11	8	6	3	1											
23	19	16	13	11	8	6	3	1										
21	21	18	15	13	10	ย	G	4	1									
														'				
25	23	20	18	15	13	10	8	6	4	2								
26	25	22	20	17	15	18	11	8	6	4	2							
27	27	21	22	19	17	15	13	11	9	7	5	3						
28	29	26	21	21	19	17	15	13	11	9	7	5	3	1				
29	30	28	25	23	21	19	17	15	13	11	9	7	5	4	2			
	-																	-
30	32	30	27	25	23	21	19	17	15	13	11	9	8	6	4	3		
31	33	31	29	27	21	22	20	18	16	15	13	11	9	8	6	5	3	:
32	32	30	27	24	22	20	18	16	11	12	10	8	6	5	3	2	5	
33	34	31	29	26	21	22	20	18	16	11	12	10	9	7	5	4	2	
34	35	33	30	28	25	23	21	20	18	16	11	12	11	9	7	6	-16	
			_				23	21	19	- 18	16	11	12	11	9	8	6	-
35	36	31 35	32	29 31	27 28	25 26	25 25	23	21	19	17	16	11	13	11	10	8	
36	37	36	33	32	30	28	26	24	22	21	19	17	16	11	13	11	9	
37 20	39 40	38	34 36	33	31	28	27	26	21	22	20	19	17	16	14	13	11	1
38		39		35			29	27	25	21	22	20	19	17	16	14	13	1
39	41	311	37	30	32	31	20	2/	25	21		20	19	1,	10	1.5	10	١.
			_					-			-		-			·		-
40	42	40	38	36	34	32	30	29	27	25	23	22	20	18	17	16	14	1
41	-13	Ħ	39	37	35	33	31	30	28	26	25	23	22	20	18	17	16	1
12	41	42	40	38	36	31	33	31	29	28	26	21	23	21	20	18	17	1
43	15	13	-11	39	37	35	31	32	30	29	27	25	24	22	21	20	18	1

TABLE XI,

Wet bulb						1	VALUES	or t-	-t' in	Degre	es, Fa	HRKNI	EIT.						_
t'.	0	0.2	1	1.5	2	2.2	8	3'5	4	4.2	5	5.2	6	6.2	7	7.5	8	8.2	9
45	100	96	93	90	86	83	80	77	74	71	69	66	63	61	59	56	54	51	4
46	100	96	93	90	87	83	80	77	75	72	69	67	61	61	59	57	55	52	5
47	100	96	93	90	87	81	81	78	75	72	70	67	65	62	60	57	55	53	5
48	100	97	93	90	87	81	81	78	75	73	70	68	65	63	61	58	56	51	5
49	100	97	93	90	87	81	81	79	76	73	71	693	66	64	61	59	57	54	5
50	160	97	93	91	88	85	82	79	76	71	71	69	66	61	62	60	58	55	5
51	100	97	91	91	88	85	82	79	77	74	72	69	67	65	62	60	59	56	1
52	100	97	91	91	88	85	82	80	77	75	72	70	67	65	63	61	59	57	5
53	100	97	91	91	88	85	83	80	78	75	73	70	68	66	64	62	60	57	1
51	100	97	91	91	88	86	83	80	78	76	73	71	68	66	64	62	60	58	5
55	100	97	91	91	88	86	83	81	78	 76	74	71	69	67	65	63	61	50	
56	100	97	91	91	89	86	83	81	79	76	71	72	69	67	65	63	61	59	0
57	100	97	94	92	89	86	84	81	79	77	71	72	70	67	66	64	62	60	
58	100	97	94	92	89	86	81	81	79	77	75	72	70	68	66	61	62	60	
59	100	97	91	92	89	87	84	82	79	77	75	73	71	69	67	65	63	61	ı
																			-
60	100	97	95	92	89	87	81	82	80	77	75	73	71	69	67	65	63	61	6
61	100	97	95	92	90	87	81	82	80	78	76	73	71	70	68	66	61	62	6
62	100	97	95	92	90	87	85	82	80	78	76	71	72	70	68	66	61	62	•
63	100	97	95	92	90	87	85	83	80	78	76	71	72	70	68	67	65	63	•
64	100	97	95	92	90	88	85	83	81	78	77	7-1	73	71	69	67	65	63	
65	100	97	95	92	90	88	86	83	81	79	77	75	73	71	69	67	66	64	
66	100	97	95	92	90	88	86	83	81	79	77	75	73	71	70	68	66	64	(
67	100	97	95	93	90	88	86	84	81	79	78	76	74	72	70	68	67	65	(
68	100	97	95	93	90	88	86	84	82	79	78	76	74	72	70	69	67	65	
69	100	97	95	93	91	88	86	81	82	80	78	76	74	72	71	69	67	66	•
70	100	98	95	93	91	89	86	81	82	80	78	76	75	73	71	69	68	66	-
71	100	98	95	93	91	89	86	84.	82	80	78	77	75	73	71	70	68	66	(
72	100	98	95	93	91	89	87	85	82	80	79	77	75	73	72	70	68	67	
73	100	98	96	93	91	80	87	85	83	81	79	77	75	74	72	70	69	67	
74	100	98	96	93	91	89	87	85	83	81	79	77	76	74	72	71	69	67	
75	100	98	96	98	91	89	87	85	83	81	80	78	76	71	72	71	69	68	

TABLE XI,

777 4						V.	ALUES	or t—t	' IN D	EGREE	s, Fah	KENHE	IT.		-			
Wet bulb $\ell'$ ,	9.2	10	10.5	11	11.5	12	12.5	13	13.5	14	14.2	15	15.5	16	16.2	17	17.5	18
45	47	45	43	41	39	38	36	31	33	31	29	28	27	25	24	22	21	20
46	48	46	41	42	40	39	37	35	34	32	30	29	28	26	25	24	22	21
47	49	47	45	43	41	40	38	36	35	33	32	30	29	27	26	25	23	22
48	50	48	46	44	42	41	39	37	36	34	33	31	30	28	27	26	24	23
49	51	49	47	45	43	43	40	38	37	35	34	32	31	29	28	27	25	24
50	51	50	48	16	41	43	41	39	38	36	35	33	32	31	29	28	27	25
51	52	50	49	47	45	43	42	40	39	37	36	34	33	32	30	29	28	26
52	53	51	50	48	46	41	43	41	40	38	37	35	31	32	31	30	29	2
53	53	52	50	49	47	45	41	42	41	39	38	36	35	33	32	31	30	2
51	51	53	51	49	48	46	15	43	41	40	39	37	36	31	33	32	31	21
55	55	63	51	50	48	47	46	41	42	-41	39	38	36	35	31	33	31	3
56	56	54	52	50	49	47.	46	45	43	41	40	39	37	36	35	33	32	3
57	56	55	53	51	49	48	47	45	41	42	41	39	38	37	35	34	33	3
58	57	55	51	52	50	49	47	46	41	43	42	40	39	39	36	35	34	1
59	57	56	54	53	51	49	48	46	45	44	42	41	40	38	37	36	34	3
60	58	56	55	53	52	50	49	17	46	41	43	42	40	39	38	37	35	3
61	58	57	55	54	52	51	19	48	46	45	43	42	41	40	39	37	36	3
62	59	57	56	54	53	51	50	48	47	45	-11	43	42	40	39	38	37	3
63	59	58	56	55	53	52	50	49	47	46 .	44	44	42	41	40	39	38	3
61	60	58	57	55	54	52	51	49	48	46	45	44	43	41	.10	39	38	3
65	61	59	- 57	56	54	53	51	50	48	47	46	45	43	42	41	40	39	3
66	61	59	58	56	55	53	53	50	49	48	46	45	41	43	42	41	39	3
67	62	60	58	57	55	54	52	51	49	48	47	46	45	44	42	41	40	3
68	62	60	59	57	56	54	53	51	50	49	48	47	45	41	43	42	41	40
69	62	61	59	58	56	55	53	52	50	49	48	47	46	45	44	43	41	4
70	63	61	60	58	57	55	54	52	51	50	49	48	47	45	41	43	42	41
71	63	62	60	59	57	56	54	53	51	50	49	48	.17	46	45	44	43	4:
72	64	62	61	59	58	56	55	53	52	51	50	48	47	46	45	44	43	4.2
73	61	63	61	60	58	57	55	54	53	52	50	49	48	47	46	45	44	43
74	64	63	61	60	59	57	56	55	53	52	51	50	49	47	46	45	44	43
75	65	63	62	60	59	58	56	55	54	53	52	50	40	48	47	46	45	44

TABLE XII,

For finding the Weight of Water Vapour, in Troy grains, in each cubic foot of air at each temperature, and for any given vapour tension p, as expressed in inches of mercury, in latitude  $22^{\circ}$ .

						TEMPE	RATUBE C	F AIR.					
p.	23.	73.	12º.	173.	223.	27°.	32°.	37°.	42°.	473.	52°.	5 <b>7</b> °.	620
.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0
.002	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03
.003	0.01	0.01	0.01	0.01	10.0	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.08
1001	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.08	0.02	0.02	0.01	0.01	0.0
.002	0.08	0.06	0.08	0.08	0.06	0.08	0.08	0.06	0.06	0.08	0.08	0.08	0.0
.006	0.02	0.02	0.04	0.02	0.02	0.02	0.02	0.02	0.07	0.02	0.02	0.02	0.0
'007	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
800	0.10	0.10	0.10	0.10	0.10	0.05	0.09	0.09	0.00	0.08	0.08	0.09	0.08
9009	0.11	0.11	0.11	011	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.1
·010	0.12	0.13	0.15	0.15	0.13	0.13	0.15	0.13	0.11	0.11	0.11	0.11	 0°1
.020	0.22	0 25	0.21	0.21	0.21	0.21	0.53	0.53	0.53	0.53	0.53	0.55	0.5
.030	0.37	0-37	0.36	0.36	0.36	0.32	0.32	0.32	0.31	0.31	0.31	0.33	0.3
.010	0.20	0.19	0.10	0.18	0.13	0.17	0.17	0.19	0.10	0.15	0.45	0.11	0.1
·050	0.62	0.01	0.61	0.60	0.29	0.28	0.28	0.28	0.57	0.22	0.26	0.22	0.5
•060	0.74	0.71	0.73	072	0.71	0.21	0.70	0.69	0.69	0.68	0.67	0.67	0.0
•070	0.87	0.86	0.85	0.81	0.83	0.85	0.95	0.81	0.80	0.79	0.78	0.78	0.4
•080	0.88	0.88	0.97	0.80	0.95	0.91	0.83	0.92	0.01	0.90	0.90	0.89	0.8
.090	1.12	1.10	1.00	1.08	1.07	1.00	1.02	1'04	1.03	1.02	1.01	1.00	0.8
100	1.21	1.53	1.21	1:20	1.19	1.18	1.16	1.12	1.14	1.13	1.12	1.11	1.1
200	2.48	2.16	2.13	2.10	2.38	2:35	2:33	2:31	2.28	2.26	2.21	2.22	2.2
·300	3.72	3.68	3.61	3.61	3:57	3.23	3.49	3.16	3.13	3:39	3.36	3.33	3:;
.100	4.96	4.91	4.86	4.81	4.76	1.71	4.66	4-62	4.57	4.52	4:18	4.11	4:
•500	6.51	6.11	6.02	6.01	5'95	5.89	5.82	5.77	5:71	5.66	5.60	5.22	5.1
•600	7:45	7:37	7:29	7:21	7:11	7:06	6.99	6.92	6.85	6.49	6.72	6.06	6.6
.700	8.60	8:59	8:50	8.11	8.33	8.21	8:16	8.08	8.00	7.92	7.81	7.76	7.0
.800	9.53	9.82	9.72	9.62	9.52	9.12	9.32	0.53	9.14	9 05	8.96	8.87	8.7
•900	11.17	11.02	10.93	10.82	10.71	10.60	10.48	10:38	10.28	10.18	10.08	9:98	0.4
1.000	12:11	12.28	12:15	12.02	11.90	11.77	11.65	11.21	11:42	11:31	11.50	11:09	100
2.000	21.82	21.26	24.30	21.01	23.79	23.55	23.30	23.08	22.84	22.62	22.40	22.18	21.8

TABLE XII,

For finding the Weight of Water Vapour, in Troy grains, in each cubic foot of air at each temperature, and for any given vapour tension p, as expressed in inches of mercury, in latitude  $22^{\circ}$ —(continued).

						TEMPE	RATURE C	F AIR.					
p.	67°.	72°.	77°.	82°.	87°.	92°.	97°.	102°.	107°.	112°.	11 <b>7</b> °.	122°.	127°
.001	0.01	0.01	0:01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
.002	0.05	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.02	0.02
.003	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
.004	0.04	0.01	0.04	0.04	0.04	0.04	0.04	0.01	0.04	0.04	0.04	0.04	0.01
.005	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.09
.006	0.02	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.00
*007	0.08	0.08	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	<b>0</b> ·07	0.02
.008	0.00	0.00	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0 08
.009	0.10	0.10	0.10	0.10	0.08	0.08	0.08	0.08	0.00	0.09	0.08	0.09	0.06
.010	011	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.13	0.10	0.10
.020	0.23	0.22	0.21	0.21	0.21	0.21	0.21	0.50	0.50	0.20	0.50	0.50	0.50
.030	0.33	0.32	0.35	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0 30	0.5
.040	0.41	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.10	0.40	0.40	0.39	0.3
.020	0.21	0.54	0.23	0 53	0.52	0.2	0.21	0.21	0.21	0.20	0.20	0.49	0.4
.060	0.62	0.65	0.64	0.63	0.63	0.62	0.62	0.61	0.81	0.60	0.00	0.29	0.2
·ó70	0.76	0.75	0.75	0.74	0.43	0.73	0.72	0.41	0.41	0.40	0.70	0.69	0.8
.080	0.87	0.86	0.82	0.85	0.84	0.83	0.82	0.83	0.81	0.80	0.80	0.48	0.7
.080	0.98	0.97	0.96	0.82	0.84	0.94	0.83	0.92	0.91	0.90	0.80	0.89	0.8
'100	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.99	0.9
200	2.18	2.16	2.14	2.12	2.10	2.08	2.08	2.01	2.02	2.00	1.99	1.97	1.8
.300	3.58	3.23	3-20	3.17	3.12	3.12	3.09	3.06	3.03	3.01	2.98	2.96	2.9
·400	4.35	4.31	4.27	4.53	4.19	4.16	4.15	1.08	4.05	4.01	3.88	3.94	3 9
•500	5.44	5:39	5.31	5.59	5.24	5.50	5-15	5.10	5.08	5:01	4.97	4.93	4.8
.600	6 53	6:47	6.41	6.32	6:29	6.53	6.18	6.12	6.07	6.02	5.96	5.91	5.8
.700	7.62	7.55	7:48	7:41	7:34	7:27	7-21	7.14	7:08	7.02	6.96	6.90	6.8
.800	8.71	8.62	8.24	8.47	8.39	8:31	8-21	8.16	8.09	8.02	7.95	7.88	7.8
.800	9.79	9.70	9.61	9.52	9.44	9.35	9.27	9.19	9.10	9.03	8.82	8'87	8.2
1.000	10.88	10.78	10.68	10.28	10.49	10.39	10.30	10.51	10.15	10.03	9.91	9.86	9.7
2.000	21.77	21.26	21.36	21.16	20.97	20.78	20.59	20.11	20.53	20:06	19:98	1971	19.5